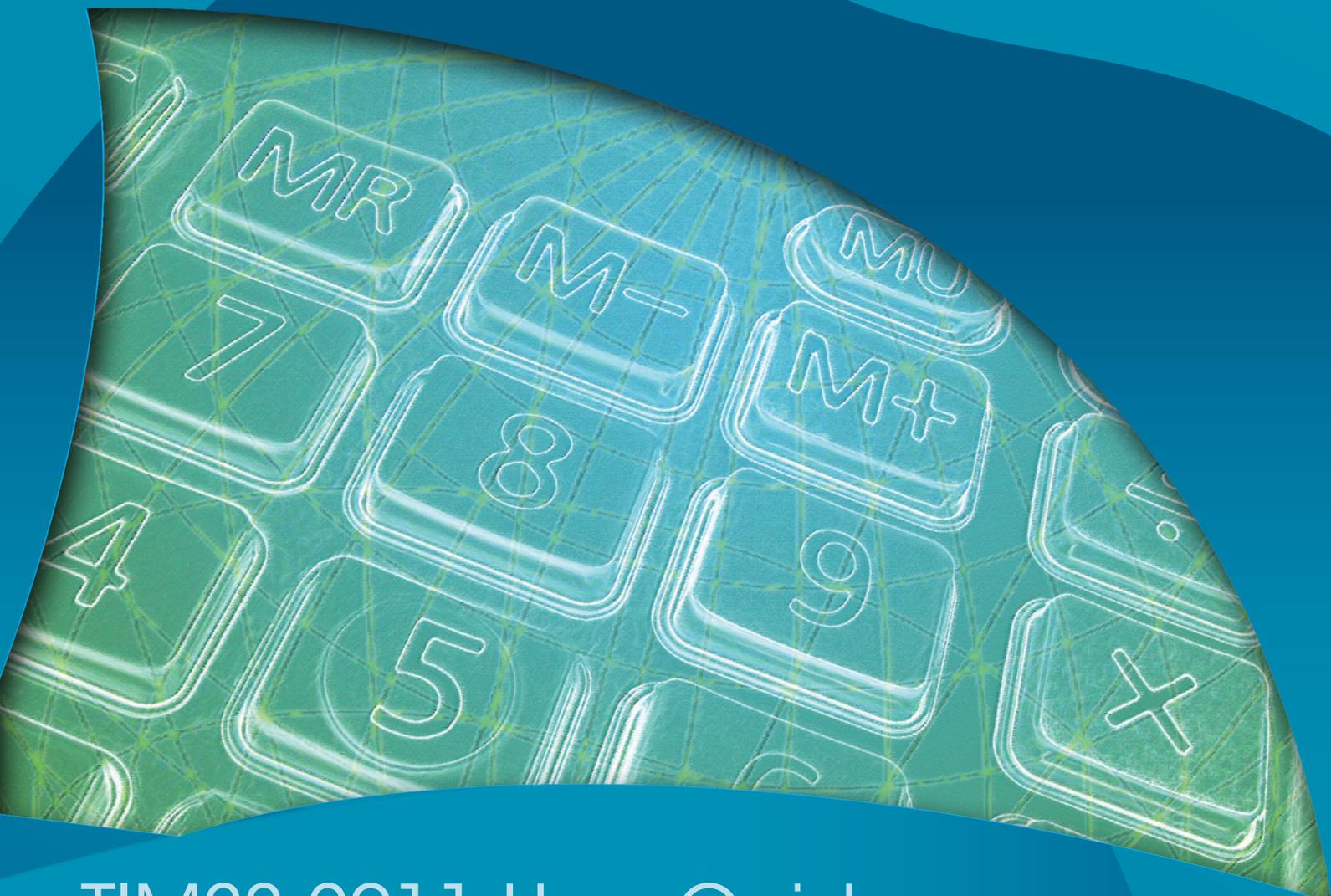


TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# TIMSS



**TIMSS & PIRLS**  
International Study Center  
Lynch School of Education, Boston College



## TIMSS 2011 User Guide for the International Database

### **Percent Correct Statistics for the Released Items**

Science – Fourth Grade

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Edited by Pierre Foy, Alka Arora, and Gabrielle M. Stanco

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For more information about TIMSS contact:

TIMSS & PIRLS International Study Center

Lynch School of Education

Boston College

Chestnut Hill, MA 02467

United States

tel: +1-617-552-1600

fax: +1-617-552-1203

e-mail: [timss@bc.edu](mailto:timss@bc.edu)

[timss.bc.edu](http://timss.bc.edu)

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S01\_01 (S031356): Which animal is a predator  
Multiple Choice (Key is B)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Korea, Rep. of                   | 99 (0.4) ▲      |
| Finland                          | 98 (0.5) ▲      |
| Netherlands                      | 98 (0.7) ▲      |
| Russian Federation               | 98 (0.7) ▲      |
| Poland                           | 97 (0.7) ▲      |
| Lithuania                        | 97 (0.8) ▲      |
| Kazakhstan                       | 96 (0.9) ▲      |
| Croatia                          | 96 (0.8) ▲      |
| Italy                            | 96 (0.9) ▲      |
| Czech Republic                   | 96 (1.1) ▲      |
| Austria                          | 96 (0.8) ▲      |
| Hungary                          | 95 (1.0) ▲      |
| Georgia                          | 95 (1.4) ▲      |
| Belgium (Flemish)                | 95 (1.0) ▲      |
| Azerbaijan                       | 95 (1.1) ▲      |
| Germany                          | 94 (1.1) ▲      |
| Slovak Republic                  | 93 (1.0) ▲      |
| Armenia                          | 93 (0.9) ▲      |
| Iran, Islamic Rep. of            | 93 (1.0) ▲      |
| Spain                            | 92 (1.2) ▲      |
| Serbia                           | 92 (1.5) ▲      |
| Slovenia                         | 91 (1.3) ▲      |
| Northern Ireland                 | 91 (1.6)        |
| Thailand                         | 91 (1.8)        |
| United States                    | 90 (0.7) ▲      |
| Hong Kong SAR                    | 90 (1.3) ▲      |
| Denmark                          | 90 (1.5)        |
| Romania                          | 89 (1.9)        |
| Sweden                           | 89 (1.3)        |
| Chile                            | 89 (1.3)        |
| Singapore                        | 88 (1.3)        |
| Norway                           | 88 (1.9)        |
| Portugal                         | 88 (2.1)        |
| <b>International Avg.</b>        | <b>88 (0.2)</b> |
| England                          | 87 (1.8)        |
| Australia                        | 87 (1.4)        |
| Turkey                           | 86 (1.4)        |
| New Zealand                      | 86 (1.3)        |
| Ireland                          | 86 (1.7)        |
| Chinese Taipei                   | 83 (1.9) ▼      |
| Bahrain                          | 83 (1.6) ▼      |
| Japan                            | 83 (1.5) ▼      |
| Saudi Arabia                     | 83 (1.6) ▼      |
| Tunisia                          | 81 (1.9) ▼      |
| Kuwait                           | 74 (2.0) ▼      |
| United Arab Emirates             | 74 (1.4) ▼      |
| Oman                             | 73 (1.4) ▼      |
| Morocco                          | 62 (2.3) ▼      |
| Qatar                            | 61 (2.7) ▼      |
| Malta                            | 58 (2.3) ▼      |
| Yemen                            | 54 (1.8) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 89 (1.6)        |
| Yemen                            | 70 (2.3) ▼      |
| Botswana                         | 54 (2.4) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 94 (1.1) ▲      |
| Florida, US                      | 93 (1.6) ▲      |
| Alberta, Canada                  | 91 (1.2) ▲      |
| North Carolina, US               | 89 (2.9)        |
| Ontario, Canada                  | 87 (1.6)        |
| Abu Dhabi, UAE                   | 75 (2.2) ▼      |
| Dubai, UAE                       | 70 (2.5) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_02 (S031291): What walrus has to keep it warm  
Multiple Choice (Key is A)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Finland                          | 98 (0.5)        | ▲ |
| Russian Federation               | 97 (1.0)        | ▲ |
| Czech Republic                   | 95 (1.0)        | ▲ |
| Italy                            | 95 (1.0)        | ▲ |
| Austria                          | 94 (1.0)        | ▲ |
| Germany                          | 94 (1.2)        | ▲ |
| Sweden                           | 94 (1.0)        | ▲ |
| Netherlands                      | 93 (1.1)        | ▲ |
| Lithuania                        | 93 (1.1)        | ▲ |
| Chile                            | 93 (0.9)        | ▲ |
| Poland                           | 92 (1.1)        | ▲ |
| Denmark                          | 92 (1.3)        | ▲ |
| Northern Ireland                 | 92 (1.8)        | ▲ |
| United States                    | 91 (0.8)        | ▲ |
| Hungary                          | 91 (1.2)        | ▲ |
| Spain                            | 90 (1.5)        | ▲ |
| Slovak Republic                  | 90 (1.4)        | ▲ |
| Korea, Rep. of                   | 90 (1.2)        | ▲ |
| Australia                        | 90 (1.3)        | ▲ |
| England                          | 89 (1.3)        | ▲ |
| Hong Kong SAR                    | 89 (1.8)        | ▲ |
| Ireland                          | 88 (1.7)        | ▲ |
| Croatia                          | 88 (1.4)        | ▲ |
| New Zealand                      | 88 (1.1)        | ▲ |
| Georgia                          | 88 (2.1)        | ▲ |
| Portugal                         | 87 (2.0)        | ▲ |
| Azerbaijan                       | 87 (1.6)        | ▲ |
| Belgium (Flemish)                | 87 (1.2)        | ▲ |
| Serbia                           | 86 (1.9)        | ▲ |
| Kazakhstan                       | 86 (2.1)        | ▲ |
| Singapore                        | 86 (1.2)        | ▲ |
| Chinese Taipei                   | 85 (1.9)        | ▲ |
| Japan                            | 85 (1.6)        | ▲ |
| Slovenia                         | 84 (1.7)        |   |
| Romania                          | 83 (2.5)        |   |
| <b>International Avg.</b>        | <b>81 (0.2)</b> |   |
| Thailand                         | 80 (2.3)        |   |
| Norway                           | 79 (2.2)        |   |
| Iran, Islamic Rep. of            | 72 (1.8)        | ▼ |
| Armenia                          | 71 (2.1)        | ▼ |
| Turkey                           | 70 (2.0)        | ▼ |
| Malta                            | 70 (1.9)        | ▼ |
| Bahrain                          | 70 (2.5)        | ▼ |
| United Arab Emirates             | 63 (1.1)        | ▼ |
| Saudi Arabia                     | 59 (2.3)        | ▼ |
| Qatar                            | 58 (3.1)        | ▼ |
| Tunisia                          | 47 (2.7)        | ▼ |
| Oman                             | 44 (1.8)        | ▼ |
| Kuwait                           | 44 (2.0)        | ▼ |
| Morocco                          | 27 (2.5)        | ▼ |
| Yemen                            | 25 (2.0)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 65 (2.8)        | ▼ |
| Yemen                            | 45 (2.2)        | ▼ |
| Botswana                         | 42 (2.4)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Quebec, Canada                   | 94 (1.1)        | ▲ |
| Florida, US                      | 94 (1.3)        | ▲ |
| North Carolina, US               | 93 (1.6)        | ▲ |
| Alberta, Canada                  | 92 (1.3)        | ▲ |
| Ontario, Canada                  | 90 (1.3)        | ▲ |
| Dubai, UAE                       | 70 (1.7)        | ▼ |
| Abu Dhabi, UAE                   | 59 (2.6)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_03 (S031230): Birds/bats/butterflies share  
Multiple Choice (Key is D)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 99 (0.3)        | ▲ |
| United States                    | 96 (0.5)        | ▲ |
| Croatia                          | 95 (0.9)        | ▲ |
| Singapore                        | 95 (0.7)        | ▲ |
| Finland                          | 95 (0.9)        | ▲ |
| Sweden                           | 95 (0.9)        | ▲ |
| Ireland                          | 95 (0.9)        | ▲ |
| Austria                          | 94 (0.9)        | ▲ |
| England                          | 94 (1.4)        | ▲ |
| Norway                           | 93 (1.3)        | ▲ |
| Germany                          | 93 (1.1)        | ▲ |
| New Zealand                      | 93 (1.2)        | ▲ |
| Portugal                         | 92 (1.3)        | ▲ |
| Russian Federation               | 92 (1.0)        | ▲ |
| Australia                        | 92 (1.5)        | ▲ |
| Slovenia                         | 91 (1.3)        | ▲ |
| Netherlands                      | 91 (1.5)        | ▲ |
| Northern Ireland                 | 91 (2.0)        | ▲ |
| Denmark                          | 91 (1.3)        | ▲ |
| Serbia                           | 91 (1.4)        | ▲ |
| Czech Republic                   | 90 (1.6)        | ▲ |
| Poland                           | 90 (1.4)        | ▲ |
| Slovak Republic                  | 89 (1.5)        | ▲ |
| Italy                            | 89 (1.6)        | ▲ |
| Lithuania                        | 89 (1.4)        | ▲ |
| Belgium (Flemish)                | 88 (1.4)        | ▲ |
| Spain                            | 87 (1.3)        | ▲ |
| Japan                            | 87 (1.5)        | ▲ |
| Thailand                         | 86 (1.5)        |   |
| Georgia                          | 86 (2.1)        |   |
| Hungary                          | 84 (1.6)        |   |
| Chile                            | 84 (1.5)        |   |
| <b>International Avg.</b>        | <b>83 (0.2)</b> |   |
| Armenia                          | 83 (1.7)        |   |
| Chinese Taipei                   | 83 (1.5)        |   |
| Romania                          | 83 (2.7)        |   |
| Malta                            | 82 (1.6)        |   |
| Hong Kong SAR                    | 79 (2.1)        |   |
| Kazakhstan                       | 79 (1.8)        | ▼ |
| Turkey                           | 79 (1.5)        | ▼ |
| Bahrain                          | 75 (2.1)        | ▼ |
| Azerbaijan                       | 75 (2.1)        | ▼ |
| United Arab Emirates             | 74 (1.1)        | ▼ |
| Saudi Arabia                     | 70 (1.9)        | ▼ |
| Iran, Islamic Rep. of            | 62 (2.1)        | ▼ |
| Qatar                            | 62 (2.1)        | ▼ |
| Tunisia                          | 61 (2.7)        | ▼ |
| Oman                             | 61 (1.6)        | ▼ |
| Kuwait                           | 54 (2.1)        | ▼ |
| Morocco                          | 47 (2.3)        | ▼ |
| Yemen                            | 31 (2.3)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 77 (2.2)        | ▼ |
| Yemen                            | 52 (2.0)        | ▼ |
| Botswana                         | 52 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 97 (1.0)        | ▲ |
| Alberta, Canada                  | 96 (0.9)        | ▲ |
| North Carolina, US               | 95 (1.2)        | ▲ |
| Ontario, Canada                  | 93 (1.0)        | ▲ |
| Quebec, Canada                   | 92 (1.5)        | ▲ |
| Dubai, UAE                       | 79 (1.6)        | ▼ |
| Abu Dhabi, UAE                   | 70 (2.3)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_04 (S031325): Manuel's temperature rise  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Norway                           | 64 (3.1)        | ▲ |
| Hong Kong SAR                    | 63 (2.3)        | ▲ |
| Belgium (Flemish)                | 62 (2.0)        | ▲ |
| Denmark                          | 61 (1.9)        | ▲ |
| Italy                            | 60 (2.7)        | ▲ |
| Sweden                           | 59 (2.2)        | ▲ |
| Croatia                          | 58 (2.3)        | ▲ |
| Hungary                          | 57 (2.2)        | ▲ |
| Finland                          | 57 (2.0)        | ▲ |
| Chinese Taipei                   | 57 (2.2)        | ▲ |
| Slovak Republic                  | 55 (2.1)        | ▲ |
| Czech Republic                   | 55 (2.7)        | ▲ |
| Russian Federation               | 54 (2.8)        | ▲ |
| United States                    | 52 (1.4)        | ▲ |
| Netherlands                      | 52 (2.4)        | ▲ |
| Lithuania                        | 52 (2.1)        | ▲ |
| Slovenia                         | 50 (2.1)        | ▲ |
| Singapore                        | 50 (1.7)        | ▲ |
| Portugal                         | 48 (2.7)        | ▲ |
| Japan                            | 47 (2.4)        | ▲ |
| Poland                           | 45 (2.1)        | ▲ |
| Serbia                           | 45 (2.4)        | ▲ |
| Spain                            | 41 (2.3)        |   |
| Kazakhstan                       | 40 (2.8)        |   |
| Romania                          | 39 (2.9)        |   |
| Turkey                           | 39 (1.6)        |   |
| <b>International Avg.</b>        | <b>39 (0.3)</b> |   |
| Ireland                          | 38 (2.4)        |   |
| Austria                          | 37 (2.1)        |   |
| Korea, Rep. of                   | 36 (1.9)        |   |
| Azerbaijan                       | 35 (2.3)        |   |
| Georgia                          | 33 (2.3)        | ▼ |
| Australia                        | 32 (1.9)        | ▼ |
| Chile                            | 32 (1.5)        | ▼ |
| Armenia                          | 31 (2.0)        | ▼ |
| Northern Ireland                 | 30 (2.1)        | ▼ |
| Bahrain                          | 28 (1.9)        | ▼ |
| England                          | 25 (2.1)        | ▼ |
| New Zealand                      | 25 (2.0)        | ▼ |
| Germany                          | 24 (1.9)        | ▼ |
| United Arab Emirates             | 24 (1.0)        | ▼ |
| Thailand                         | 22 (2.4)        | ▼ |
| Saudi Arabia                     | 21 (2.6)        | ▼ |
| Malta                            | 20 (1.6)        | ▼ |
| Tunisia                          | 20 (2.1)        | ▼ |
| Iran, Islamic Rep. of            | 18 (1.5)        | ▼ |
| Qatar                            | 16 (1.7)        | ▼ |
| Oman                             | 16 (1.1)        | ▼ |
| Yemen                            | 8 (1.2)         | ▼ |
| Kuwait                           | 7 (1.1)         | ▼ |
| Morocco                          | 5 (0.8)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 19 (2.0)        | ▼ |
| Yemen                            | 18 (2.2)        | ▼ |
| Botswana                         | 12 (1.4)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 51 (2.7)        | ▲ |
| North Carolina, US               | 50 (3.1)        | ▲ |
| Quebec, Canada                   | 46 (2.5)        | ▲ |
| Ontario, Canada                  | 37 (2.5)        |   |
| Alberta, Canada                  | 37 (2.3)        |   |
| Dubai, UAE                       | 32 (1.5)        | ▼ |
| Abu Dhabi, UAE                   | 21 (1.6)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_05 (S031068): Maria's experiment with salt/water  
Multiple Choice (Key is A)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 84 (1.7)        | ▲ |
| Singapore                        | 75 (1.6)        | ▲ |
| Japan                            | 68 (1.9)        | ▲ |
| Hong Kong SAR                    | 64 (2.1)        | ▲ |
| United States                    | 64 (1.4)        | ▲ |
| England                          | 63 (2.4)        | ▲ |
| Chinese Taipei                   | 63 (2.6)        | ▲ |
| Finland                          | 59 (2.3)        | ▲ |
| Denmark                          | 59 (2.5)        | ▲ |
| Czech Republic                   | 59 (2.6)        | ▲ |
| Russian Federation               | 58 (2.2)        | ▲ |
| Australia                        | 58 (2.2)        | ▲ |
| Italy                            | 56 (2.2)        | ▲ |
| Germany                          | 55 (2.3)        | ▲ |
| Northern Ireland                 | 55 (2.8)        | ▲ |
| Hungary                          | 55 (1.9)        | ▲ |
| Croatia                          | 54 (2.3)        | ▲ |
| Serbia                           | 54 (2.8)        |   |
| Austria                          | 54 (2.2)        | ● |
| Belgium (Flemish)                | 53 (2.4)        |   |
| Slovak Republic                  | 53 (2.2)        |   |
| Lithuania                        | 52 (2.2)        |   |
| Ireland                          | 52 (2.4)        |   |
| Sweden                           | 52 (2.4)        |   |
| Portugal                         | 52 (2.5)        |   |
| Slovenia                         | 52 (3.0)        |   |
| New Zealand                      | 51 (2.2)        |   |
| Turkey                           | 50 (1.9)        |   |
| <b>International Avg.</b>        | <b>49 (0.3)</b> |   |
| Netherlands                      | 48 (2.6)        |   |
| Romania                          | 48 (2.9)        |   |
| Malta                            | 47 (2.0)        |   |
| Norway                           | 46 (2.7)        |   |
| Chile                            | 45 (2.1)        | ▼ |
| Bahrain                          | 45 (2.5)        |   |
| Azerbaijan                       | 44 (2.6)        |   |
| United Arab Emirates             | 44 (1.6)        | ▼ |
| Spain                            | 44 (2.7)        | ▼ |
| Kazakhstan                       | 43 (2.8)        | ▼ |
| Poland                           | 41 (1.6)        | ▼ |
| Oman                             | 39 (2.0)        | ▼ |
| Thailand                         | 38 (2.5)        | ▼ |
| Qatar                            | 37 (2.4)        | ▼ |
| Saudi Arabia                     | 36 (2.3)        | ▼ |
| Iran, Islamic Rep. of            | 36 (1.7)        | ▼ |
| Kuwait                           | 33 (2.3)        | ▼ |
| Morocco                          | 32 (2.0)        | ▼ |
| Georgia                          | 27 (2.3)        | ▼ |
| Armenia                          | 26 (2.2)        | ▼ |
| Yemen                            | 20 (1.8)        | ▼ |
| Tunisia                          | 16 (1.6)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 45 (2.1)        | ▼ |
| Yemen                            | 40 (2.7)        | ▼ |
| Botswana                         | 28 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 72 (2.5)        | ▲ |
| North Carolina, US               | 71 (3.9)        | ▲ |
| Alberta, Canada                  | 59 (2.3)        | ▲ |
| Ontario, Canada                  | 59 (1.9)        | ▲ |
| Dubai, UAE                       | 52 (2.1)        |   |
| Quebec, Canada                   | 49 (2.3)        |   |
| Abu Dhabi, UAE                   | 41 (2.6)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_06 (S031418): Position of piece of ice in water  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Japan                            | 83 (1.5)        | ▲ |
| Singapore                        | 76 (1.4)        | ▲ |
| Korea, Rep. of                   | 75 (1.9)        | ▲ |
| Finland                          | 74 (2.2)        | ▲ |
| Denmark                          | 73 (1.9)        | ▲ |
| United States                    | 61 (1.6)        | ▲ |
| Sweden                           | 60 (2.7)        | ▲ |
| Hong Kong SAR                    | 59 (2.5)        | ▲ |
| Chinese Taipei                   | 59 (2.1)        | ▲ |
| Australia                        | 58 (2.1)        | ▲ |
| Norway                           | 55 (2.6)        | ▲ |
| Northern Ireland                 | 55 (2.7)        | ▲ |
| Netherlands                      | 53 (2.6)        | ▲ |
| Belgium (Flemish)                | 52 (2.4)        | ▲ |
| Czech Republic                   | 52 (3.0)        | ▲ |
| New Zealand                      | 51 (2.3)        | ▲ |
| England                          | 51 (2.5)        | ▲ |
| Croatia                          | 51 (2.3)        | ▲ |
| Slovenia                         | 51 (2.6)        | ▲ |
| Ireland                          | 50 (2.3)        | ▲ |
| Thailand                         | 49 (2.6)        | ▲ |
| Portugal                         | 49 (3.1)        |   |
| Russian Federation               | 48 (2.1)        | ▲ |
| Chile                            | 46 (2.3)        |   |
| Lithuania                        | 46 (2.2)        |   |
| Austria                          | 45 (2.5)        |   |
| Slovak Republic                  | 44 (2.1)        |   |
| <b>International Avg.</b>        | <b>44 (0.3)</b> |   |
| Spain                            | 43 (1.9)        |   |
| Malta                            | 43 (2.1)        |   |
| Germany                          | 41 (2.3)        |   |
| Poland                           | 40 (2.1)        |   |
| Hungary                          | 39 (2.0)        | ▼ |
| Italy                            | 37 (2.4)        | ▼ |
| Bahrain                          | 37 (2.0)        | ▼ |
| Qatar                            | 33 (2.2)        | ▼ |
| United Arab Emirates             | 31 (1.2)        | ▼ |
| Romania                          | 29 (2.5)        | ▼ |
| Serbia                           | 28 (2.1)        | ▼ |
| Kuwait                           | 28 (1.7)        | ▼ |
| Iran, Islamic Rep. of            | 26 (2.0)        | ▼ |
| Saudi Arabia                     | 26 (2.0)        | ▼ |
| Azerbaijan                       | 25 (2.6)        | ▼ |
| Kazakhstan                       | 22 (2.0)        | ▼ |
| Oman                             | 22 (1.5)        | ▼ |
| Turkey                           | 21 (1.6)        | ▼ |
| Georgia                          | 21 (2.1)        | ▼ |
| Yemen                            | 18 (1.9)        | ▼ |
| Armenia                          | 18 (1.9)        | ▼ |
| Morocco                          | 14 (1.6)        | ▼ |
| Tunisia                          | 12 (1.6)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 21 (1.7)        | ▼ |
| Yemen                            | 17 (1.8)        | ▼ |
| Botswana                         | 16 (2.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 69 (2.7)        | ▲ |
| North Carolina, US               | 68 (3.1)        | ▲ |
| Quebec, Canada                   | 64 (2.5)        | ▲ |
| Alberta, Canada                  | 62 (2.4)        | ▲ |
| Ontario, Canada                  | 57 (2.3)        | ▲ |
| Dubai, UAE                       | 38 (1.8)        | ▼ |
| Abu Dhabi, UAE                   | 28 (2.3)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_07A (S031197A): Two uses of electricity  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 95 (0.9)        | ▲ |
| Finland                          | 92 (1.4)        | ▲ |
| Northern Ireland                 | 87 (1.9)        | ▲ |
| Ireland                          | 86 (1.5)        | ▲ |
| Belgium (Flemish)                | 86 (1.7)        | ▲ |
| Sweden                           | 85 (1.8)        | ▲ |
| Singapore                        | 84 (1.3)        | ▲ |
| England                          | 84 (1.7)        | ▲ |
| Australia                        | 83 (1.6)        | ▲ |
| Japan                            | 83 (1.8)        | ▲ |
| United States                    | 83 (1.1)        | ▲ |
| Slovak Republic                  | 83 (2.0)        | ▲ |
| Italy                            | 82 (1.8)        | ▲ |
| Thailand                         | 82 (1.9)        | ▲ |
| Denmark                          | 81 (1.6)        | ▲ |
| Netherlands                      | 81 (1.8)        | ▲ |
| Lithuania                        | 81 (1.8)        | ▲ |
| Chinese Taipei                   | 80 (1.7)        | ▲ |
| Slovenia                         | 80 (1.9)        | ▲ |
| Hong Kong SAR                    | 79 (2.0)        | ▲ |
| Germany                          | 79 (2.0)        | ▲ |
| Austria                          | 77 (1.8)        | ▲ |
| Hungary                          | 77 (1.7)        | ▲ |
| Czech Republic                   | 76 (1.9)        | ▲ |
| Russian Federation               | 76 (1.7)        | ▲ |
| New Zealand                      | 75 (1.6)        | ▲ |
| Portugal                         | 75 (1.9)        | ▲ |
| Bahrain                          | 74 (2.6)        |   |
| Saudi Arabia                     | 73 (2.6)        |   |
| Norway                           | 72 (2.9)        |   |
| Spain                            | 70 (1.9)        |   |
| <b>International Avg.</b>        | <b>70 (0.3)</b> |   |
| Poland                           | 69 (2.0)        |   |
| Kazakhstan                       | 67 (2.5)        |   |
| United Arab Emirates             | 64 (1.3)        | ▼ |
| Malta                            | 64 (2.3)        | ▼ |
| Serbia                           | 64 (2.1)        | ▼ |
| Iran, Islamic Rep. of            | 62 (2.1)        | ▼ |
| Romania                          | 61 (3.1)        | ▼ |
| Chile                            | 60 (2.2)        | ▼ |
| Croatia                          | 58 (2.2)        | ▼ |
| Georgia                          | 58 (2.3)        | ▼ |
| Azerbaijan                       | 57 (3.0)        | ▼ |
| Qatar                            | 53 (2.2)        | ▼ |
| Kuwait                           | 48 (2.4)        | ▼ |
| Oman                             | 47 (1.8)        | ▼ |
| Tunisia                          | 44 (2.8)        | ▼ |
| Armenia                          | 34 (2.5)        | ▼ |
| Turkey                           | 30 (1.8)        | ▼ |
| Morocco                          | 23 (1.8)        | ▼ |
| Yemen                            | 21 (1.9)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 59 (3.5)        | ▼ |
| Yemen                            | 55 (2.5)        | ▼ |
| Botswana                         | 51 (2.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 84 (1.8)        | ▲ |
| Florida, US                      | 84 (2.3)        | ▲ |
| North Carolina, US               | 84 (2.1)        | ▲ |
| Ontario, Canada                  | 82 (1.6)        | ▲ |
| Quebec, Canada                   | 81 (1.9)        | ▲ |
| Dubai, UAE                       | 71 (1.7)        |   |
| Abu Dhabi, UAE                   | 62 (2.3)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_07B (S031197B): Two uses of electricity  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 95 (0.8)        | ▲ |
| Finland                          | 86 (1.7)        | ▲ |
| Northern Ireland                 | 83 (2.2)        | ▲ |
| Sweden                           | 81 (1.8)        | ▲ |
| England                          | 80 (2.0)        | ▲ |
| Ireland                          | 80 (2.1)        | ▲ |
| Singapore                        | 79 (1.6)        | ▲ |
| Belgium (Flemish)                | 79 (1.7)        | ▲ |
| Thailand                         | 78 (2.4)        | ▲ |
| Japan                            | 77 (1.9)        | ▲ |
| Netherlands                      | 77 (2.1)        | ▲ |
| Denmark                          | 76 (1.8)        | ▲ |
| Chinese Taipei                   | 76 (1.9)        | ▲ |
| United States                    | 75 (1.2)        | ▲ |
| Australia                        | 74 (2.1)        | ▲ |
| Slovenia                         | 73 (2.3)        | ▲ |
| New Zealand                      | 73 (1.7)        | ▲ |
| Slovak Republic                  | 73 (2.3)        | ▲ |
| Bahrain                          | 72 (2.1)        | ▲ |
| Lithuania                        | 71 (2.6)        | ▲ |
| Austria                          | 71 (1.9)        | ▲ |
| Hungary                          | 69 (1.8)        | ▲ |
| Italy                            | 69 (2.3)        | ▲ |
| Germany                          | 68 (2.0)        | ▲ |
| Norway                           | 68 (3.0)        |   |
| Portugal                         | 67 (2.3)        |   |
| Hong Kong SAR                    | 66 (2.3)        |   |
| Czech Republic                   | 66 (2.0)        |   |
| Spain                            | 66 (2.4)        |   |
| <b>International Avg.</b>        | <b>63 (0.3)</b> |   |
| Russian Federation               | 62 (2.4)        |   |
| Poland                           | 62 (2.3)        |   |
| Saudi Arabia                     | 62 (2.4)        |   |
| Kazakhstan                       | 59 (2.3)        |   |
| Malta                            | 59 (2.2)        |   |
| United Arab Emirates             | 58 (1.5)        | ▼ |
| Iran, Islamic Rep. of            | 54 (2.6)        | ▼ |
| Chile                            | 53 (2.1)        | ▼ |
| Croatia                          | 51 (2.0)        | ▼ |
| Romania                          | 50 (3.1)        | ▼ |
| Georgia                          | 47 (2.0)        | ▼ |
| Qatar                            | 47 (2.3)        | ▼ |
| Serbia                           | 45 (2.5)        | ▼ |
| Oman                             | 44 (1.8)        | ▼ |
| Azerbaijan                       | 44 (2.6)        | ▼ |
| Kuwait                           | 42 (2.3)        | ▼ |
| Tunisia                          | 34 (2.7)        | ▼ |
| Armenia                          | 29 (2.5)        | ▼ |
| Turkey                           | 25 (1.8)        | ▼ |
| Yemen                            | 16 (1.7)        | ▼ |
| Morocco                          | 14 (1.3)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 55 (2.9)        | ▼ |
| Yemen                            | 49 (2.6)        | ▼ |
| Botswana                         | 40 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 78 (2.0)        | ▲ |
| Alberta, Canada                  | 75 (2.4)        | ▲ |
| Ontario, Canada                  | 74 (1.9)        | ▲ |
| North Carolina, US               | 71 (2.5)        | ▲ |
| Quebec, Canada                   | 68 (2.0)        | ▲ |
| Dubai, UAE                       | 63 (1.6)        |   |
| Abu Dhabi, UAE                   | 56 (2.5)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_07Z (S031197Z): Two uses of electricity-DERIVED  
Constructed Response (2 Points)

| Country                          | Percent Full Credit | Percent at Least 1 Point |
|----------------------------------|---------------------|--------------------------|
| Korea, Rep. of                   | 91 (1.1) ⬆          | 99 (0.4) ⬆               |
| Finland                          | 82 (1.9) ⬆          | 96 (1.0) ⬆               |
| Northern Ireland                 | 78 (2.4) ⬆          | 92 (1.4) ⬆               |
| Sweden                           | 77 (2.2) ⬆          | 89 (1.5) ⬆               |
| Ireland                          | 76 (2.2) ⬆          | 90 (1.4) ⬆               |
| Thailand                         | 75 (2.2) ⬆          | 85 (2.1) ⬆               |
| England                          | 75 (2.1) ⬆          | 90 (1.4) ⬆               |
| Singapore                        | 74 (1.6) ⬆          | 90 (1.1) ⬆               |
| Belgium (Flemish)                | 72 (1.8) ⬆          | 92 (1.1) ⬆               |
| Australia                        | 71 (2.1) ⬆          | 86 (1.5) ⬆               |
| Japan                            | 71 (2.3) ⬆          | 90 (1.2) ⬆               |
| Slovenia                         | 70 (2.3) ⬆          | 83 (1.8) ⬆               |
| Slovak Republic                  | 70 (2.3) ⬆          | 86 (2.0) ⬆               |
| Denmark                          | 70 (1.9) ⬆          | 87 (1.5) ⬆               |
| Lithuania                        | 69 (2.7) ⬆          | 83 (1.7) ⬆               |
| United States                    | 68 (1.4) ⬆          | 90 (0.8) ⬆               |
| Bahrain                          | 68 (2.8) ⬆          | 78 (1.9)                 |
| Netherlands                      | 67 (2.6) ⬆          | 91 (1.4) ⬆               |
| Austria                          | 66 (1.9) ⬆          | 82 (1.7) ⬆               |
| Chinese Taipei                   | 66 (2.2) ⬆          | 90 (1.3) ⬆               |
| New Zealand                      | 65 (1.8) ⬆          | 84 (1.4) ⬆               |
| Italy                            | 64 (2.2) ⬆          | 87 (1.7) ⬆               |
| Hungary                          | 64 (2.0) ⬆          | 82 (1.5) ⬆               |
| Germany                          | 63 (2.1) ⬆          | 83 (1.9) ⬆               |
| Czech Republic                   | 63 (2.0) ⬆          | 79 (1.9) ⬆               |
| Norway                           | 61 (2.9)            | 79 (2.9)                 |
| Poland                           | 60 (2.2)            | 71 (2.1) ⬇               |
| Saudi Arabia                     | 58 (2.4)            | 77 (2.5)                 |
| Hong Kong SAR                    | 58 (2.3)            | 88 (1.8) ⬆               |
| Portugal                         | 57 (2.0)            | 84 (1.9) ⬆               |
| <b>International Avg.</b>        | <b>57 (0.3)</b>     | <b>75 (0.3)</b>          |
| Russian Federation               | 56 (2.4)            | 82 (1.4) ⬆               |
| Spain                            | 56 (2.2)            | 80 (2.0) ⬆               |
| Kazakhstan                       | 54 (2.5)            | 72 (2.2)                 |
| Malta                            | 52 (2.2) ⬇          | 70 (2.1) ⬇               |
| United Arab Emirates             | 51 (1.4) ⬇          | 71 (1.3) ⬇               |
| Iran, Islamic Rep. of            | 50 (2.4) ⬇          | 66 (2.2) ⬇               |
| Croatia                          | 48 (2.1) ⬇          | 61 (2.1) ⬇               |
| Romania                          | 44 (3.0) ⬇          | 66 (3.1) ⬇               |
| Chile                            | 44 (2.3) ⬇          | 69 (2.1) ⬇               |
| Qatar                            | 41 (2.3) ⬇          | 59 (2.3) ⬇               |
| Azerbaijan                       | 41 (2.6) ⬇          | 60 (3.0) ⬇               |
| Oman                             | 40 (1.7) ⬇          | 52 (1.8) ⬇               |
| Georgia                          | 39 (1.9) ⬇          | 66 (2.3) ⬇               |
| Kuwait                           | 37 (2.3) ⬇          | 52 (2.5) ⬇               |
| Serbia                           | 36 (2.2) ⬇          | 72 (2.1)                 |
| Tunisia                          | 29 (2.4) ⬇          | 49 (2.9) ⬇               |
| Armenia                          | 26 (2.3) ⬇          | 37 (2.7) ⬇               |
| Turkey                           | 20 (1.8) ⬇          | 35 (1.8) ⬇               |
| Yemen                            | 12 (1.5) ⬇          | 25 (2.1) ⬇               |
| Morocco                          | 8 (1.1) ⬇           | 29 (1.9) ⬇               |
| <b>Sixth Grade Participants</b>  |                     |                          |
| Honduras                         | 50 (3.2) ⬇          | 64 (3.2) ⬇               |
| Yemen                            | 42 (2.5) ⬇          | 61 (2.5) ⬇               |
| Botswana                         | 34 (2.2) ⬇          | 56 (2.4) ⬇               |
| <b>Benchmarking Participants</b> |                     |                          |
| Florida, US                      | 70 (2.3) ⬆          | 91 (1.8) ⬆               |
| Ontario, Canada                  | 70 (2.0) ⬆          | 87 (1.5) ⬆               |
| Alberta, Canada                  | 69 (2.5) ⬆          | 90 (1.4) ⬆               |
| North Carolina, US               | 66 (2.6) ⬆          | 89 (1.9) ⬆               |
| Quebec, Canada                   | 59 (2.3)            | 90 (1.4) ⬆               |
| Dubai, UAE                       | 56 (1.9)            | 78 (1.2) ⬆               |
| Abu Dhabi, UAE                   | 50 (2.3) ⬇          | 68 (2.4) ⬇               |

- ⬆ Percent significantly higher than international average
- ⬇ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_08 (S031371): Heat to change state of water  
Multiple Choice (Key is D)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Germany                          | 73 (1.6)        | ▲ |
| Austria                          | 68 (2.1)        | ▲ |
| Slovenia                         | 67 (2.2)        | ▲ |
| Singapore                        | 66 (2.0)        | ▲ |
| Russian Federation               | 66 (2.5)        | ▲ |
| Korea, Rep. of                   | 64 (1.9)        | ▲ |
| Croatia                          | 62 (2.0)        | ▲ |
| United States                    | 61 (1.2)        | ▲ |
| Finland                          | 60 (2.3)        | ▲ |
| Lithuania                        | 59 (2.7)        | ▲ |
| Chile                            | 58 (1.9)        | ▲ |
| Sweden                           | 57 (2.5)        | ▲ |
| Norway                           | 54 (3.5)        | ▲ |
| England                          | 53 (2.9)        | ▲ |
| Hungary                          | 51 (1.9)        | ▲ |
| Northern Ireland                 | 50 (2.8)        |   |
| Serbia                           | 50 (2.3)        |   |
| Italy                            | 50 (2.4)        |   |
| Ireland                          | 50 (2.7)        |   |
| Hong Kong SAR                    | 50 (2.4)        |   |
| Kazakhstan                       | 49 (2.8)        |   |
| Belgium (Flemish)                | 49 (2.0)        |   |
| Poland                           | 48 (2.1)        |   |
| Malta                            | 48 (2.2)        |   |
| <b>International Avg.</b>        | <b>47 (0.3)</b> |   |
| New Zealand                      | 47 (2.0)        |   |
| Australia                        | 46 (2.0)        |   |
| Bahrain                          | 45 (2.5)        |   |
| Thailand                         | 44 (2.8)        |   |
| Japan                            | 44 (2.1)        |   |
| Chinese Taipei                   | 44 (2.1)        |   |
| Slovak Republic                  | 43 (2.3)        |   |
| United Arab Emirates             | 43 (1.3)        | ▼ |
| Iran, Islamic Rep. of            | 42 (2.1)        | ▼ |
| Saudi Arabia                     | 41 (2.7)        | ▼ |
| Tunisia                          | 41 (2.9)        | ▼ |
| Qatar                            | 40 (2.2)        | ▼ |
| Turkey                           | 40 (2.0)        | ▼ |
| Denmark                          | 39 (2.4)        | ▼ |
| Romania                          | 38 (2.8)        | ▼ |
| Spain                            | 37 (2.1)        | ▼ |
| Armenia                          | 37 (2.0)        | ▼ |
| Kuwait                           | 35 (2.1)        | ▼ |
| Oman                             | 35 (2.0)        | ▼ |
| Czech Republic                   | 35 (2.5)        | ▼ |
| Portugal                         | 34 (2.5)        | ▼ |
| Azerbaijan                       | 34 (2.7)        | ▼ |
| Netherlands                      | 33 (2.4)        | ▼ |
| Georgia                          | 27 (2.0)        | ▼ |
| Yemen                            | 27 (1.9)        | ▼ |
| Morocco                          | 25 (1.9)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 40 (2.2)        | ▼ |
| Yemen                            | 34 (2.1)        | ▼ |
| Botswana                         | 30 (2.6)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| North Carolina, US               | 69 (3.5)        | ▲ |
| Florida, US                      | 65 (2.5)        | ▲ |
| Alberta, Canada                  | 59 (2.5)        | ▲ |
| Ontario, Canada                  | 54 (2.7)        | ▲ |
| Dubai, UAE                       | 46 (2.1)        | ▼ |
| Abu Dhabi, UAE                   | 42 (2.2)        | ▼ |
| Quebec, Canada                   | 37 (2.2)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_09 (S031376): Best soil for plants to grow in  
Multiple Choice (Key is D)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Thailand                         | 75 (2.3)        | ▲ |
| Czech Republic                   | 73 (2.0)        | ▲ |
| Korea, Rep. of                   | 67 (2.2)        | ▲ |
| Finland                          | 63 (1.9)        | ▲ |
| Croatia                          | 61 (2.0)        | ▲ |
| Slovak Republic                  | 60 (2.2)        | ▲ |
| Russian Federation               | 60 (2.6)        | ▲ |
| Serbia                           | 59 (2.5)        | ▲ |
| Italy                            | 58 (2.9)        | ▲ |
| Chinese Taipei                   | 57 (2.8)        | ▲ |
| Sweden                           | 56 (2.9)        | ▲ |
| Azerbaijan                       | 55 (2.6)        | ▲ |
| Hungary                          | 54 (2.6)        | ▲ |
| Denmark                          | 53 (2.3)        | ▲ |
| Kazakhstan                       | 52 (2.9)        | ▲ |
| Portugal                         | 49 (2.9)        | ▲ |
| United States                    | 48 (1.6)        | ▲ |
| Armenia                          | 46 (2.5)        | ▲ |
| Hong Kong SAR                    | 46 (2.1)        | ▲ |
| New Zealand                      | 46 (2.2)        | ▲ |
| Slovenia                         | 46 (2.3)        | ▲ |
| Romania                          | 46 (2.2)        | ▲ |
| England                          | 46 (2.5)        | ▲ |
| <b>International Avg.</b>        | <b>40 (0.3)</b> |   |
| Norway                           | 40 (3.0)        |   |
| Australia                        | 39 (1.9)        |   |
| Malta                            | 37 (1.8)        |   |
| Poland                           | 35 (2.1)        | ▼ |
| Northern Ireland                 | 35 (2.5)        | ▼ |
| Spain                            | 34 (2.7)        | ▼ |
| Ireland                          | 34 (2.9)        | ▼ |
| Chile                            | 32 (1.8)        | ▼ |
| Austria                          | 31 (2.0)        | ▼ |
| Japan                            | 29 (2.3)        | ▼ |
| Bahrain                          | 28 (2.5)        | ▼ |
| Germany                          | 28 (1.8)        | ▼ |
| Oman                             | 28 (1.6)        | ▼ |
| Lithuania                        | 28 (2.2)        | ▼ |
| Qatar                            | 27 (3.0)        | ▼ |
| United Arab Emirates             | 26 (1.1)        | ▼ |
| Turkey                           | 26 (2.0)        | ▼ |
| Tunisia                          | 25 (2.7)        | ▼ |
| Georgia                          | 24 (1.9)        | ▼ |
| Yemen                            | 23 (1.5)        | ▼ |
| Morocco                          | 21 (1.8)        | ▼ |
| Singapore                        | 20 (1.4)        | ▼ |
| Netherlands                      | 20 (1.9)        | ▼ |
| Belgium (Flemish)                | 20 (1.6)        | ▼ |
| Saudi Arabia                     | 19 (1.9)        | ▼ |
| Kuwait                           | 16 (1.7)        | ▼ |
| Iran, Islamic Rep. of            | 14 (1.8)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 38 (2.0)        |   |
| Yemen                            | 32 (2.7)        | ▼ |
| Botswana                         | 18 (1.9)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 64 (2.6)        | ▲ |
| North Carolina, US               | 58 (3.7)        | ▲ |
| Ontario, Canada                  | 55 (2.7)        | ▲ |
| Quebec, Canada                   | 52 (2.5)        | ▲ |
| Florida, US                      | 49 (3.0)        | ▲ |
| Dubai, UAE                       | 31 (1.6)        | ▼ |
| Abu Dhabi, UAE                   | 24 (1.9)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_10 (S031044): Label Earth, Moon, and Sun  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Portugal                         | 78 (2.2) ▲      |
| Russian Federation               | 74 (2.5) ▲      |
| Korea, Rep. of                   | 73 (1.6) ▲      |
| Slovak Republic                  | 66 (2.4) ▲      |
| United States                    | 65 (1.6) ▲      |
| Finland                          | 65 (2.2) ▲      |
| Sweden                           | 64 (2.7) ▲      |
| England                          | 63 (2.5) ▲      |
| Norway                           | 60 (3.3) ▲      |
| Spain                            | 59 (2.4) ▲      |
| Chile                            | 59 (1.9) ▲      |
| Hong Kong SAR                    | 58 (1.8) ▲      |
| United Arab Emirates             | 55 (1.2) ▲      |
| Australia                        | 54 (2.5) ▲      |
| Lithuania                        | 54 (2.5) ▲      |
| Japan                            | 53 (2.1) ▲      |
| Austria                          | 53 (2.7)        |
| Czech Republic                   | 52 (2.2)        |
| Denmark                          | 52 (2.3)        |
| Chinese Taipei                   | 52 (2.2)        |
| Kuwait                           | 51 (2.4)        |
| Bahrain                          | 51 (2.5)        |
| Hungary                          | 51 (2.2)        |
| Malta                            | 50 (1.9)        |
| Ireland                          | 50 (2.6)        |
| Kazakhstan                       | 49 (2.9)        |
| Netherlands                      | 49 (2.6)        |
| Poland                           | 49 (2.5)        |
| International Avg.               | 49 (0.3)        |
| Slovenia                         | 48 (2.3)        |
| Thailand                         | 48 (2.7)        |
| Singapore                        | 48 (1.8)        |
| Qatar                            | 47 (2.4)        |
| Romania                          | 47 (3.0)        |
| Germany                          | 44 (2.4)        |
| Italy                            | 44 (2.3) ▼      |
| New Zealand                      | 44 (2.0) ▼      |
| Croatia                          | 43 (2.1) ▼      |
| Iran, Islamic Rep. of            | 42 (2.2) ▼      |
| Georgia                          | 40 (2.4) ▼      |
| Saudi Arabia                     | 39 (2.8) ▼      |
| Belgium (Flemish)                | 39 (2.5) ▼      |
| Azerbaijan                       | 39 (3.0) ▼      |
| Serbia                           | 39 (2.7) ▼      |
| Turkey                           | 38 (1.8) ▼      |
| Northern Ireland                 | 35 (2.5) ▼      |
| Oman                             | 30 (1.9) ▼      |
| Armenia                          | 27 (2.4) ▼      |
| Tunisia                          | 17 (2.1) ▼      |
| Morocco                          | 16 (2.2) ▼      |
| Yemen                            | 15 (1.7) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 29 (2.2) ▼      |
| Yemen                            | 26 (1.8) ▼      |
| Botswana                         | 23 (2.6) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Florida, US                      | 68 (3.7) ▲      |
| North Carolina, US               | 63 (3.4) ▲      |
| Quebec, Canada                   | 59 (2.3) ▲      |
| Dubai, UAE                       | 58 (2.3) ▲      |
| Abu Dhabi, UAE                   | 54 (2.5) ▲      |
| Alberta, Canada                  | 48 (2.8)        |
| Ontario, Canada                  | 46 (2.5)        |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_11A (S031390A): Animal extinction  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 85 (1.5)        | ▲ |
| Chinese Taipei                   | 77 (1.9)        | ▲ |
| Italy                            | 76 (1.9)        | ▲ |
| Sweden                           | 74 (2.6)        | ▲ |
| Singapore                        | 72 (1.8)        | ▲ |
| Finland                          | 72 (1.9)        | ▲ |
| Russian Federation               | 71 (2.0)        | ▲ |
| Netherlands                      | 71 (2.5)        | ▲ |
| Austria                          | 69 (2.3)        | ▲ |
| Poland                           | 68 (2.3)        | ▲ |
| Thailand                         | 67 (2.8)        | ▲ |
| Lithuania                        | 67 (2.2)        | ▲ |
| Croatia                          | 66 (2.3)        | ▲ |
| Slovak Republic                  | 63 (2.7)        | ▲ |
| Romania                          | 62 (3.1)        | ▲ |
| Serbia                           | 61 (2.6)        | ▲ |
| Denmark                          | 61 (2.1)        | ▲ |
| United States                    | 61 (1.4)        | ▲ |
| Portugal                         | 61 (2.6)        | ▲ |
| Hong Kong SAR                    | 61 (2.4)        | ▲ |
| Czech Republic                   | 60 (2.7)        | ▲ |
| Spain                            | 60 (2.5)        | ▲ |
| Georgia                          | 59 (2.5)        |   |
| Germany                          | 59 (2.3)        |   |
| Hungary                          | 59 (2.5)        |   |
| England                          | 59 (2.3)        |   |
| Northern Ireland                 | 58 (2.9)        |   |
| Belgium (Flemish)                | 58 (2.3)        |   |
| Ireland                          | 57 (2.5)        |   |
| Iran, Islamic Rep. of            | 56 (2.0)        |   |
| Chile                            | 55 (2.0)        |   |
| Kazakhstan                       | 55 (2.4)        |   |
| New Zealand                      | 55 (2.1)        |   |
| <b>International Avg.</b>        | <b>55 (0.3)</b> |   |
| Australia                        | 54 (2.1)        |   |
| Norway                           | 52 (3.2)        |   |
| Slovenia                         | 51 (2.3)        |   |
| Turkey                           | 50 (2.0)        | ▼ |
| Azerbaijan                       | 46 (2.8)        | ▼ |
| Japan                            | 45 (2.0)        | ▼ |
| Saudi Arabia                     | 44 (2.7)        | ▼ |
| Bahrain                          | 42 (2.6)        | ▼ |
| Armenia                          | 38 (2.3)        | ▼ |
| Kuwait                           | 36 (2.4)        | ▼ |
| Oman                             | 33 (1.7)        | ▼ |
| United Arab Emirates             | 32 (1.1)        | ▼ |
| Malta                            | 31 (2.3)        | ▼ |
| Tunisia                          | 30 (2.7)        | ▼ |
| Qatar                            | 25 (1.9)        | ▼ |
| Morocco                          | 14 (1.3)        | ▼ |
| Yemen                            | 5 (1.0)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 49 (3.1)        | ▼ |
| Yemen                            | 23 (2.2)        | ▼ |
| Botswana                         | 17 (2.0)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Quebec, Canada                   | 69 (2.3)        | ▲ |
| Florida, US                      | 64 (2.9)        | ▲ |
| Alberta, Canada                  | 63 (2.4)        | ▲ |
| Ontario, Canada                  | 60 (2.5)        |   |
| North Carolina, US               | 58 (4.0)        |   |
| Dubai, UAE                       | 38 (1.7)        | ▼ |
| Abu Dhabi, UAE                   | 32 (2.4)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_11B (S031390B): Animal extinction  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 61 (2.1)        | ▲ |
| Netherlands                      | 52 (2.2)        | ▲ |
| Russian Federation               | 51 (1.8)        | ▲ |
| Italy                            | 50 (2.5)        | ▲ |
| Denmark                          | 48 (2.3)        | ▲ |
| Sweden                           | 46 (2.4)        | ▲ |
| Finland                          | 45 (2.1)        | ▲ |
| Poland                           | 45 (2.3)        | ▲ |
| Austria                          | 45 (2.3)        | ▲ |
| Chinese Taipei                   | 45 (2.1)        | ▲ |
| Slovak Republic                  | 45 (2.5)        | ▲ |
| Thailand                         | 44 (2.8)        | ▲ |
| Hungary                          | 43 (2.1)        | ▲ |
| Romania                          | 43 (3.0)        | ▲ |
| Germany                          | 43 (2.6)        | ▲ |
| Czech Republic                   | 43 (2.5)        | ▲ |
| Serbia                           | 41 (2.6)        | ▲ |
| Slovenia                         | 40 (2.6)        | ▲ |
| Kazakhstan                       | 40 (2.4)        | ▲ |
| Ireland                          | 38 (2.8)        |   |
| Georgia                          | 38 (2.5)        |   |
| Spain                            | 37 (2.5)        |   |
| Croatia                          | 36 (2.0)        |   |
| United States                    | 36 (1.3)        |   |
| England                          | 36 (2.2)        |   |
| Belgium (Flemish)                | 35 (2.1)        |   |
| Iran, Islamic Rep. of            | 35 (2.2)        |   |
| Singapore                        | 34 (1.7)        |   |
| <b>International Avg.</b>        | <b>34 (0.3)</b> |   |
| Australia                        | 33 (2.1)        |   |
| Northern Ireland                 | 33 (2.5)        |   |
| Japan                            | 32 (2.1)        |   |
| Lithuania                        | 32 (2.2)        |   |
| Hong Kong SAR                    | 29 (2.1)        | ▼ |
| Portugal                         | 29 (2.5)        | ▼ |
| Bahrain                          | 29 (2.4)        | ▼ |
| New Zealand                      | 29 (2.2)        | ▼ |
| Saudi Arabia                     | 28 (2.4)        | ▼ |
| Armenia                          | 27 (2.4)        | ▼ |
| Turkey                           | 27 (1.7)        | ▼ |
| Norway                           | 24 (2.2)        | ▼ |
| Chile                            | 24 (2.1)        | ▼ |
| Azerbaijan                       | 23 (2.2)        | ▼ |
| Kuwait                           | 23 (1.9)        | ▼ |
| Malta                            | 20 (1.7)        | ▼ |
| United Arab Emirates             | 18 (1.1)        | ▼ |
| Qatar                            | 16 (1.9)        | ▼ |
| Oman                             | 14 (1.2)        | ▼ |
| Tunisia                          | 13 (1.9)        | ▼ |
| Morocco                          | 7 (1.0)         | ▼ |
| Yemen                            | 2 (0.6)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 36 (2.9)        |   |
| Yemen                            | 10 (1.4)        | ▼ |
| Botswana                         | 10 (1.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 44 (2.6)        | ▲ |
| Ontario, Canada                  | 43 (2.5)        | ▲ |
| Florida, US                      | 35 (2.6)        |   |
| Quebec, Canada                   | 33 (2.3)        |   |
| North Carolina, US               | 32 (2.8)        |   |
| Dubai, UAE                       | 21 (1.4)        | ▼ |
| Abu Dhabi, UAE                   | 19 (2.2)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S01\_11Z (S031390Z): Animal extinction-DERIVED  
Constructed Response (2 Points)

| Country                          | Percent Full Credit | Percent at Least 1 Point |
|----------------------------------|---------------------|--------------------------|
| Korea, Rep. of                   | 54 (2.2) ⬆          | 91 (1.1) ⬆               |
| Russian Federation               | 44 (1.9) ⬆          | 78 (2.0) ⬆               |
| Italy                            | 44 (2.5) ⬆          | 82 (1.7) ⬆               |
| Poland                           | 41 (2.3) ⬆          | 72 (2.1) ⬆               |
| Netherlands                      | 41 (2.7) ⬆          | 81 (2.2) ⬆               |
| Sweden                           | 40 (2.6) ⬆          | 79 (1.9) ⬆               |
| Thailand                         | 40 (2.6) ⬆          | 71 (2.5) ⬆               |
| Romania                          | 38 (3.0) ⬆          | 67 (3.1) ⬆               |
| Chinese Taipei                   | 38 (2.1) ⬆          | 83 (1.7) ⬆               |
| Denmark                          | 38 (2.1) ⬆          | 71 (2.0) ⬆               |
| Austria                          | 38 (2.2) ⬆          | 76 (2.1) ⬆               |
| Finland                          | 38 (2.0) ⬆          | 79 (1.7) ⬆               |
| Slovak Republic                  | 37 (2.5) ⬆          | 71 (2.5) ⬆               |
| Serbia                           | 36 (2.7) ⬆          | 66 (2.5) ⬆               |
| Hungary                          | 36 (2.0) ⬆          | 67 (2.4) ⬆               |
| Kazakhstan                       | 34 (2.6) ⬆          | 61 (2.3)                 |
| Czech Republic                   | 33 (2.4) ⬆          | 70 (2.7) ⬆               |
| Germany                          | 33 (2.4) ⬆          | 69 (2.2) ⬆               |
| Georgia                          | 33 (2.4)            | 64 (2.4)                 |
| Ireland                          | 32 (2.3)            | 63 (2.4)                 |
| Croatia                          | 31 (2.0)            | 72 (2.2) ⬆               |
| England                          | 30 (2.3)            | 64 (2.2)                 |
| Singapore                        | 29 (1.7)            | 77 (1.8) ⬆               |
| Spain                            | 29 (2.1)            | 67 (2.5) ⬆               |
| United States                    | 29 (1.2)            | 68 (1.3) ⬆               |
| Iran, Islamic Rep. of            | 28 (2.4)            | 62 (2.2)                 |
| Slovenia                         | 28 (2.1)            | 63 (2.5)                 |
| <b>International Avg.</b>        | <b>28 (0.3)</b>     | <b>61 (0.3)</b>          |
| Lithuania                        | 27 (1.9)            | 72 (2.3) ⬆               |
| Belgium (Flemish)                | 27 (1.7)            | 67 (2.2) ⬆               |
| Australia                        | 26 (1.8)            | 61 (2.5)                 |
| Northern Ireland                 | 26 (2.2)            | 65 (2.9)                 |
| Portugal                         | 25 (2.5)            | 65 (2.7)                 |
| Bahrain                          | 23 (2.2) ⬇          | 47 (2.7) ⬇               |
| New Zealand                      | 23 (2.1) ⬇          | 61 (2.0)                 |
| Armenia                          | 23 (2.1) ⬇          | 43 (2.6) ⬇               |
| Saudi Arabia                     | 23 (2.2) ⬇          | 50 (2.7) ⬇               |
| Turkey                           | 22 (1.8) ⬇          | 55 (1.9) ⬇               |
| Hong Kong SAR                    | 20 (2.0) ⬇          | 70 (2.1) ⬆               |
| Azerbaijan                       | 19 (2.2) ⬇          | 50 (2.7) ⬇               |
| Kuwait                           | 19 (1.9) ⬇          | 39 (2.3) ⬇               |
| Chile                            | 19 (1.6) ⬇          | 60 (2.1)                 |
| Malta                            | 16 (1.7) ⬇          | 35 (2.3) ⬇               |
| Japan                            | 16 (1.5) ⬇          | 61 (2.1)                 |
| United Arab Emirates             | 14 (0.9) ⬇          | 36 (1.2) ⬇               |
| Norway                           | 13 (1.8) ⬇          | 63 (3.2)                 |
| Qatar                            | 12 (1.5) ⬇          | 29 (2.1) ⬇               |
| Tunisia                          | 11 (1.7) ⬇          | 33 (2.7) ⬇               |
| Oman                             | 10 (1.0) ⬇          | 37 (1.7) ⬇               |
| Morocco                          | 6 (0.9) ⬇           | 15 (1.3) ⬇               |
| Yemen                            | 1 (0.5) ⬇           | 6 (1.1) ⬇                |
| <b>Sixth Grade Participants</b>  |                     |                          |
| Honduras                         | 30 (2.7)            | 54 (3.0) ⬇               |
| Yemen                            | 7 (1.3) ⬇           | 26 (2.2) ⬇               |
| Botswana                         | 7 (1.1) ⬇           | 20 (2.2) ⬇               |
| <b>Benchmarking Participants</b> |                     |                          |
| Alberta, Canada                  | 38 (2.4) ⬆          | 69 (2.4) ⬆               |
| Ontario, Canada                  | 36 (2.2) ⬆          | 67 (2.8) ⬆               |
| Florida, US                      | 29 (2.7)            | 70 (2.8) ⬆               |
| Quebec, Canada                   | 28 (2.0)            | 73 (2.4) ⬆               |
| North Carolina, US               | 24 (2.5)            | 67 (3.4)                 |
| Dubai, UAE                       | 17 (1.1) ⬇          | 42 (1.7) ⬇               |
| Abu Dhabi, UAE                   | 14 (1.9) ⬇          | 36 (2.6) ⬇               |

- ⬆ Percent significantly higher than international average
- ⬇ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

**S02\_01 (S051057): Write body part beside function**  
**Constructed Response (1 Point)**

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Finland                          | 91 (1.3)        | ▲ |
| Sweden                           | 83 (2.1)        | ▲ |
| Czech Republic                   | 81 (2.2)        | ▲ |
| England                          | 80 (1.9)        | ▲ |
| Norway                           | 80 (2.6)        | ▲ |
| Northern Ireland                 | 78 (2.0)        | ▲ |
| Spain                            | 75 (1.8)        | ▲ |
| Hungary                          | 74 (2.0)        | ▲ |
| Slovenia                         | 73 (2.1)        | ▲ |
| Slovak Republic                  | 73 (2.4)        | ▲ |
| Denmark                          | 72 (2.2)        | ▲ |
| Ireland                          | 70 (2.2)        | ▲ |
| New Zealand                      | 70 (1.8)        | ▲ |
| Austria                          | 69 (2.4)        | ▲ |
| Australia                        | 69 (2.4)        | ▲ |
| Portugal                         | 69 (2.0)        | ▲ |
| Germany                          | 68 (2.5)        | ▲ |
| Turkey                           | 67 (1.7)        | ▲ |
| Singapore                        | 66 (2.0)        | ▲ |
| United States                    | 65 (1.4)        | ▲ |
| Croatia                          | 64 (2.2)        | ▲ |
| Romania                          | 64 (2.2)        | ▲ |
| Netherlands                      | 60 (2.5)        | ▲ |
| Russian Federation               | 58 (2.3)        | ▲ |
| Italy                            | 56 (2.3)        | ▲ |
| Belgium (Flemish)                | 54 (2.1)        | ▲ |
| Hong Kong SAR                    | 54 (2.7)        |   |
| Chile                            | 50 (2.1)        |   |
| Malta                            | 50 (2.3)        |   |
| <b>International Avg.</b>        | <b>50 (0.3)</b> |   |
| Serbia                           | 49 (2.3)        |   |
| Azerbaijan                       | 46 (3.1)        |   |
| Poland                           | 45 (2.1)        | ▼ |
| Kazakhstan                       | 37 (3.0)        | ▼ |
| United Arab Emirates             | 37 (1.4)        | ▼ |
| Qatar                            | 35 (2.4)        | ▼ |
| Lithuania                        | 35 (2.4)        | ▼ |
| Georgia                          | 29 (2.7)        | ▼ |
| Iran, Islamic Rep. of            | 29 (2.3)        | ▼ |
| Japan                            | 26 (1.7)        | ▼ |
| Thailand                         | 26 (2.3)        | ▼ |
| Bahrain                          | 24 (2.6)        | ▼ |
| Korea, Rep. of                   | 23 (1.6)        | ▼ |
| Armenia                          | 21 (2.1)        | ▼ |
| Chinese Taipei                   | 15 (1.5)        | ▼ |
| Tunisia                          | 10 (1.8)        | ▼ |
| Kuwait                           | 9 (1.4)         | ▼ |
| Oman                             | 8 (0.7)         | ▼ |
| Saudi Arabia                     | 7 (1.2)         | ▼ |
| Morocco                          | 4 (1.1)         | ▼ |
| Yemen                            | 2 (0.6)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 30 (3.0)        | ▼ |
| Yemen                            | 22 (2.1)        | ▼ |
| Botswana                         | 5 (1.0)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Ontario, Canada                  | 70 (2.0)        | ▲ |
| Alberta, Canada                  | 70 (2.6)        | ▲ |
| Florida, US                      | 66 (2.8)        | ▲ |
| Quebec, Canada                   | 63 (2.6)        | ▲ |
| North Carolina, US               | 62 (3.0)        | ▲ |
| Dubai, UAE                       | 54 (2.0)        | ▲ |
| Abu Dhabi, UAE                   | 30 (2.5)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_02 (S051032): Hedgehog rolling into ball  
Multiple Choice (Key is D)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Russian Federation               | 76 (2.3) ▲      |
| Denmark                          | 74 (2.2) ▲      |
| Poland                           | 73 (1.9) ▲      |
| Slovenia                         | 73 (2.1) ▲      |
| Finland                          | 72 (2.2) ▲      |
| Czech Republic                   | 71 (2.6) ▲      |
| Hungary                          | 69 (2.0) ▲      |
| Spain                            | 68 (2.1) ▲      |
| Germany                          | 66 (2.2) ▲      |
| Croatia                          | 66 (2.2) ▲      |
| Slovak Republic                  | 65 (1.8) ▲      |
| Serbia                           | 65 (2.7) ▲      |
| Lithuania                        | 64 (2.5) ▲      |
| Austria                          | 61 (2.1) ▲      |
| Kazakhstan                       | 59 (2.7) ▲      |
| Northern Ireland                 | 58 (2.3) ▲      |
| Korea, Rep. of                   | 58 (1.9) ▲      |
| England                          | 58 (2.6) ▲      |
| Japan                            | 57 (1.8) ▲      |
| Turkey                           | 56 (2.0) ▲      |
| Azerbaijan                       | 56 (2.9) ▲      |
| Netherlands                      | 54 (2.0) ▲      |
| Sweden                           | 54 (2.5)        |
| Ireland                          | 51 (2.6)        |
| New Zealand                      | 51 (1.8)        |
| Hong Kong SAR                    | 51 (1.8)        |
| United States                    | 50 (1.6)        |
| <b>International Avg.</b>        | <b>50 (0.3)</b> |
| Singapore                        | 50 (1.9)        |
| Portugal                         | 50 (2.9)        |
| Australia                        | 49 (2.3)        |
| Italy                            | 49 (2.2)        |
| Chinese Taipei                   | 48 (2.2)        |
| Romania                          | 47 (3.2)        |
| Iran, Islamic Rep. of            | 45 (2.6)        |
| Georgia                          | 45 (2.5) ▼      |
| Belgium (Flemish)                | 43 (2.3) ▼      |
| Thailand                         | 43 (2.2) ▼      |
| Norway                           | 43 (2.7) ▼      |
| Malta                            | 37 (2.0) ▼      |
| Chile                            | 34 (1.8) ▼      |
| Armenia                          | 34 (2.1) ▼      |
| Bahrain                          | 30 (2.3) ▼      |
| Saudi Arabia                     | 30 (2.9) ▼      |
| Qatar                            | 27 (1.9) ▼      |
| United Arab Emirates             | 27 (1.2) ▼      |
| Morocco                          | 24 (1.9) ▼      |
| Tunisia                          | 23 (2.6) ▼      |
| Yemen                            | 22 (1.8) ▼      |
| Kuwait                           | 19 (1.8) ▼      |
| Oman                             | 18 (1.2) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 28 (2.1) ▼      |
| Yemen                            | 22 (1.7) ▼      |
| Botswana                         | 19 (2.1) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 59 (2.3) ▲      |
| Alberta, Canada                  | 54 (2.4)        |
| Florida, US                      | 53 (2.7)        |
| North Carolina, US               | 49 (3.2)        |
| Ontario, Canada                  | 47 (2.3)        |
| Dubai, UAE                       | 35 (1.9) ▼      |
| Abu Dhabi, UAE                   | 26 (2.0) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_03B (S051049B): 2: Animals with backbones  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Japan                            | 92 (1.1)        | ▲ |
| Finland                          | 90 (1.4)        | ▲ |
| Spain                            | 90 (1.6)        | ▲ |
| Czech Republic                   | 89 (1.8)        | ▲ |
| Germany                          | 89 (1.4)        | ▲ |
| Portugal                         | 89 (1.8)        | ▲ |
| Italy                            | 88 (1.4)        | ▲ |
| United States                    | 88 (0.8)        | ▲ |
| Korea, Rep. of                   | 88 (1.3)        | ▲ |
| Slovak Republic                  | 87 (2.0)        | ▲ |
| Sweden                           | 86 (2.2)        | ▲ |
| Croatia                          | 86 (1.3)        | ▲ |
| Russian Federation               | 85 (1.9)        | ▲ |
| Poland                           | 85 (1.6)        | ▲ |
| Hungary                          | 85 (1.5)        | ▲ |
| Serbia                           | 85 (1.8)        | ▲ |
| Chinese Taipei                   | 85 (1.5)        | ▲ |
| Northern Ireland                 | 84 (2.0)        | ▲ |
| Norway                           | 84 (2.9)        | ▲ |
| Austria                          | 84 (1.7)        | ▲ |
| Australia                        | 83 (1.7)        | ▲ |
| Netherlands                      | 83 (1.9)        | ▲ |
| England                          | 82 (1.6)        | ▲ |
| Chile                            | 82 (1.3)        | ▲ |
| Malta                            | 81 (1.7)        |   |
| Slovenia                         | 80 (2.2)        |   |
| New Zealand                      | 80 (1.8)        |   |
| Ireland                          | 79 (1.9)        |   |
| Singapore                        | 79 (1.6)        |   |
| Denmark                          | 78 (2.0)        |   |
| Bahrain                          | 78 (1.9)        |   |
| Lithuania                        | 78 (2.0)        |   |
| International Avg.               | 78 (0.3)        |   |
| Hong Kong SAR                    | 77 (1.9)        |   |
| Thailand                         | 76 (2.2)        |   |
| Saudi Arabia                     | 75 (2.3)        |   |
| Belgium (Flemish)                | 73 (1.9)        | ▼ |
| Romania                          | 73 (3.0)        |   |
| United Arab Emirates             | 71 (1.3)        | ▼ |
| Georgia                          | 71 (2.0)        | ▼ |
| Iran, Islamic Rep. of            | 71 (2.1)        | ▼ |
| Kazakhstan                       | 68 (2.7)        | ▼ |
| Turkey                           | 67 (1.5)        | ▼ |
| Oman                             | 67 (1.6)        | ▼ |
| Qatar                            | 66 (2.3)        | ▼ |
| Armenia                          | 66 (2.3)        | ▼ |
| Kuwait                           | 63 (2.1)        | ▼ |
| Azerbaijan                       | 62 (2.5)        | ▼ |
| Tunisia                          | 55 (2.3)        | ▼ |
| Morocco                          | 51 (1.9)        | ▼ |
| Yemen                            | 38 (2.3)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 78 (1.7)        |   |
| Yemen                            | 76 (2.4)        |   |
| Botswana                         | 54 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 87 (1.8)        | ▲ |
| Florida, US                      | 86 (1.6)        | ▲ |
| Quebec, Canada                   | 84 (1.7)        | ▲ |
| Ontario, Canada                  | 84 (1.4)        | ▲ |
| North Carolina, US               | 81 (2.3)        |   |
| Abu Dhabi, UAE                   | 75 (2.5)        |   |
| Dubai, UAE                       | 69 (1.6)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_03C (S051049C): 3: Animals with backbones  
Multiple Choice (Key is B)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Germany                          | 78 (1.7) ▲      |
| Spain                            | 76 (2.5) ▲      |
| Italy                            | 76 (2.1) ▲      |
| Austria                          | 76 (1.9) ▲      |
| Czech Republic                   | 75 (2.5) ▲      |
| Sweden                           | 75 (1.9) ▲      |
| Japan                            | 74 (1.8) ▲      |
| Finland                          | 73 (2.0) ▲      |
| Russian Federation               | 72 (2.5) ▲      |
| Hungary                          | 72 (2.2) ▲      |
| Portugal                         | 71 (2.5) ▲      |
| Croatia                          | 71 (1.8) ▲      |
| Singapore                        | 70 (1.6) ▲      |
| Chile                            | 68 (1.7) ▲      |
| Slovenia                         | 67 (2.7) ▲      |
| Lithuania                        | 67 (2.5) ▲      |
| Poland                           | 66 (2.1) ▲      |
| Chinese Taipei                   | 65 (1.9)        |
| Bahrain                          | 65 (2.0)        |
| Thailand                         | 65 (2.7)        |
| Australia                        | 65 (2.2)        |
| Norway                           | 65 (2.5)        |
| Denmark                          | 64 (2.6)        |
| Hong Kong SAR                    | 64 (2.2)        |
| Slovak Republic                  | 63 (2.2)        |
| Saudi Arabia                     | 62 (2.5)        |
| Northern Ireland                 | 62 (2.7)        |
| England                          | 62 (2.6)        |
| <b>International Avg.</b>        | <b>62 (0.3)</b> |
| United States                    | 61 (1.5)        |
| Romania                          | 60 (2.9)        |
| Korea, Rep. of                   | 59 (1.9)        |
| Kazakhstan                       | 59 (2.6)        |
| New Zealand                      | 58 (2.1)        |
| Ireland                          | 58 (2.3)        |
| Serbia                           | 57 (2.6)        |
| Belgium (Flemish)                | 57 (2.2) ▼      |
| United Arab Emirates             | 56 (1.4) ▼      |
| Malta                            | 55 (2.1) ▼      |
| Georgia                          | 53 (2.8) ▼      |
| Netherlands                      | 53 (2.1) ▼      |
| Turkey                           | 53 (1.7) ▼      |
| Kuwait                           | 53 (1.9) ▼      |
| Oman                             | 51 (1.5) ▼      |
| Iran, Islamic Rep. of            | 50 (2.0) ▼      |
| Armenia                          | 49 (2.2) ▼      |
| Morocco                          | 47 (2.0) ▼      |
| Tunisia                          | 45 (2.2) ▼      |
| Azerbaijan                       | 44 (2.8) ▼      |
| Qatar                            | 43 (3.0) ▼      |
| Yemen                            | 33 (2.3) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 74 (1.8) ▲      |
| Yemen                            | 62 (3.1) ▼      |
| Botswana                         | 50 (2.3) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 72 (1.9) ▲      |
| Florida, US                      | 66 (2.3) ▼      |
| Alberta, Canada                  | 65 (2.6)        |
| Ontario, Canada                  | 61 (2.1)        |
| North Carolina, US               | 59 (3.1)        |
| Abu Dhabi, UAE                   | 58 (2.5)        |
| Dubai, UAE                       | 55 (2.0) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_03D (S051049D): 4: Animals with backbones  
Multiple Choice (Key is A)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Japan                            | 83 (1.4) ▲      |
| Iran, Islamic Rep. of            | 81 (1.6) ▲      |
| Slovak Republic                  | 81 (1.6) ▲      |
| Italy                            | 77 (2.0) ▲      |
| Russian Federation               | 74 (2.1) ▲      |
| Bahrain                          | 74 (3.1) ▲      |
| Romania                          | 74 (2.3) ▲      |
| Hungary                          | 73 (2.1) ▲      |
| Croatia                          | 72 (1.7) ▲      |
| Saudi Arabia                     | 72 (2.0) ▲      |
| Czech Republic                   | 71 (2.2) ▲      |
| Azerbaijan                       | 70 (2.6) ▲      |
| Georgia                          | 70 (2.0) ▲      |
| Sweden                           | 69 (2.4) ▲      |
| Chile                            | 67 (1.9) ▲      |
| Slovenia                         | 67 (2.4) ▲      |
| Australia                        | 66 (2.1)        |
| Spain                            | 64 (2.2)        |
| Armenia                          | 64 (2.2)        |
| Serbia                           | 64 (2.3)        |
| Thailand                         | 64 (2.6)        |
| Oman                             | 62 (1.7)        |
| <b>International Avg.</b>        | <b>62 (0.3)</b> |
| Korea, Rep. of                   | 61 (2.0)        |
| Kazakhstan                       | 61 (2.8)        |
| Finland                          | 61 (2.8)        |
| Morocco                          | 60 (2.7)        |
| Kuwait                           | 60 (2.3)        |
| Austria                          | 60 (2.4)        |
| Malta                            | 60 (2.1)        |
| Norway                           | 59 (3.2)        |
| Turkey                           | 59 (1.8)        |
| Lithuania                        | 58 (2.2)        |
| Germany                          | 58 (2.1) ▼      |
| Poland                           | 57 (2.3) ▼      |
| Portugal                         | 57 (2.8)        |
| Belgium (Flemish)                | 57 (2.3) ▼      |
| New Zealand                      | 57 (2.2) ▼      |
| United Arab Emirates             | 56 (1.3) ▼      |
| Singapore                        | 56 (1.8) ▼      |
| Ireland                          | 54 (2.1) ▼      |
| Netherlands                      | 54 (2.7) ▼      |
| Denmark                          | 53 (2.7) ▼      |
| Hong Kong SAR                    | 52 (2.3) ▼      |
| Qatar                            | 52 (2.1) ▼      |
| United States                    | 52 (1.6) ▼      |
| England                          | 52 (2.6) ▼      |
| Northern Ireland                 | 50 (2.5) ▼      |
| Chinese Taipei                   | 46 (2.2) ▼      |
| Tunisia                          | 46 (2.5) ▼      |
| Yemen                            | 42 (2.3) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 77 (1.7) ▲      |
| Yemen                            | 67 (2.6)        |
| Botswana                         | 63 (2.3)        |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 61 (2.7)        |
| Abu Dhabi, UAE                   | 59 (2.1)        |
| Alberta, Canada                  | 55 (2.6) ▼      |
| Florida, US                      | 51 (2.9) ▼      |
| Dubai, UAE                       | 50 (2.0) ▼      |
| Ontario, Canada                  | 50 (2.3) ▼      |
| North Carolina, US               | 45 (3.2) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_03E (S051049E): 5: Animals with backbones  
Multiple Choice (Key is A)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Japan                            | 99 (0.3) ▲      |
| Finland                          | 99 (0.4) ▲      |
| Slovenia                         | 99 (0.5) ▲      |
| Croatia                          | 99 (0.5) ▲      |
| Germany                          | 98 (0.6) ▲      |
| Lithuania                        | 98 (0.6) ▲      |
| Russian Federation               | 98 (0.6) ▲      |
| Serbia                           | 98 (0.8) ▲      |
| Sweden                           | 98 (0.6) ▲      |
| Korea, Rep. of                   | 98 (0.6) ▲      |
| Czech Republic                   | 98 (0.7) ▲      |
| United States                    | 98 (0.3) ▲      |
| Norway                           | 97 (1.3) ▲      |
| Austria                          | 97 (0.7) ▲      |
| Singapore                        | 97 (0.5) ▲      |
| Poland                           | 97 (0.7) ▲      |
| Italy                            | 97 (0.8) ▲      |
| Hong Kong SAR                    | 97 (1.1) ▲      |
| England                          | 96 (1.0) ▲      |
| Spain                            | 96 (1.0) ▲      |
| Slovak Republic                  | 96 (1.1) ▲      |
| Hungary                          | 96 (0.9) ▲      |
| Denmark                          | 95 (0.9) ▲      |
| Portugal                         | 95 (1.8) ▲      |
| Australia                        | 95 (0.7) ▲      |
| Northern Ireland                 | 95 (1.5) ▲      |
| Ireland                          | 94 (1.0) ▲      |
| New Zealand                      | 94 (0.9) ▲      |
| Chinese Taipei                   | 94 (1.2) ▲      |
| Chile                            | 93 (1.1) ▲      |
| Thailand                         | 93 (1.4)        |
| <b>International Avg.</b>        | <b>91 (0.2)</b> |
| Georgia                          | 91 (1.4)        |
| Bahrain                          | 90 (1.5)        |
| Kazakhstan                       | 90 (1.3)        |
| Turkey                           | 90 (1.4)        |
| Saudi Arabia                     | 90 (1.3)        |
| Malta                            | 89 (1.4)        |
| Romania                          | 89 (1.7)        |
| Iran, Islamic Rep. of            | 88 (1.2) ▼      |
| Armenia                          | 88 (1.4) ▼      |
| United Arab Emirates             | 85 (0.9) ▼      |
| Azerbaijan                       | 84 (2.0) ▼      |
| Netherlands                      | 82 (1.8) ▼      |
| Belgium (Flemish)                | 80 (1.7) ▼      |
| Oman                             | 79 (1.5) ▼      |
| Qatar                            | 77 (2.1) ▼      |
| Kuwait                           | 74 (1.5) ▼      |
| Morocco                          | 69 (2.3) ▼      |
| Tunisia                          | 65 (2.1) ▼      |
| Yemen                            | 51 (2.6) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 94 (1.5)        |
| Yemen                            | 90 (1.2)        |
| Botswana                         | 76 (2.1) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 97 (0.7) ▲      |
| Alberta, Canada                  | 97 (0.7) ▲      |
| Florida, US                      | 97 (0.9) ▲      |
| North Carolina, US               | 97 (1.1) ▲      |
| Ontario, Canada                  | 94 (1.0) ▲      |
| Dubai, UAE                       | 86 (1.3) ▼      |
| Abu Dhabi, UAE                   | 86 (1.5) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_03Z (S051049Z): Animals with backbones- DERIVED  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Japan                            | 65 (2.0) ▲      |
| Italy                            | 59 (2.4) ▲      |
| Russian Federation               | 56 (2.3) ▲      |
| Czech Republic                   | 55 (2.4) ▲      |
| Croatia                          | 55 (1.9) ▲      |
| Sweden                           | 53 (2.8) ▲      |
| Hungary                          | 53 (2.2) ▲      |
| Spain                            | 51 (2.3) ▲      |
| Slovak Republic                  | 50 (2.3) ▲      |
| Finland                          | 49 (2.3) ▲      |
| Bahrain                          | 49 (2.8) ▲      |
| Romania                          | 49 (2.8) ▲      |
| Chile                            | 48 (1.9) ▲      |
| Germany                          | 47 (1.9) ▲      |
| Saudi Arabia                     | 47 (2.6) ▲      |
| Austria                          | 45 (2.5) ▲      |
| Australia                        | 45 (2.0) ▲      |
| Norway                           | 43 (3.0)        |
| Korea, Rep. of                   | 43 (2.0)        |
| Thailand                         | 42 (2.5)        |
| Poland                           | 42 (2.4)        |
| Slovenia                         | 42 (2.3)        |
| Kazakhstan                       | 41 (2.6)        |
| Portugal                         | 41 (2.6)        |
| International Avg.               | 41 (0.3)        |
| Iran, Islamic Rep. of            | 41 (2.1)        |
| Serbia                           | 40 (2.4)        |
| Georgia                          | 40 (2.7)        |
| Denmark                          | 39 (2.5)        |
| United States                    | 39 (1.6)        |
| Hong Kong SAR                    | 38 (2.1)        |
| New Zealand                      | 38 (2.3)        |
| England                          | 37 (2.5)        |
| Lithuania                        | 37 (2.4)        |
| Malta                            | 37 (2.1)        |
| Singapore                        | 37 (1.7) ▼      |
| Ireland                          | 37 (1.9) ▼      |
| Northern Ireland                 | 36 (2.5)        |
| Azerbaijan                       | 35 (2.8) ▼      |
| Armenia                          | 35 (2.1) ▼      |
| Oman                             | 33 (1.4) ▼      |
| Turkey                           | 32 (1.8) ▼      |
| United Arab Emirates             | 32 (1.2) ▼      |
| Chinese Taipei                   | 31 (2.1) ▼      |
| Netherlands                      | 31 (2.5) ▼      |
| Kuwait                           | 30 (2.0) ▼      |
| Belgium (Flemish)                | 28 (2.1) ▼      |
| Morocco                          | 28 (2.2) ▼      |
| Qatar                            | 24 (2.4) ▼      |
| Tunisia                          | 22 (1.5) ▼      |
| Yemen                            | 17 (1.8) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 56 (2.1) ▲      |
| Yemen                            | 43 (2.9)        |
| Botswana                         | 34 (2.1) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 47 (2.2) ▲      |
| Alberta, Canada                  | 43 (2.8)        |
| Ontario, Canada                  | 38 (2.0)        |
| Florida, US                      | 37 (2.1)        |
| Abu Dhabi, UAE                   | 35 (2.4) ▼      |
| North Carolina, US               | 31 (2.6) ▼      |
| Dubai, UAE                       | 30 (2.0) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_04 (S051033): Why desert animals active at night  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Chinese Taipei                   | 71 (1.7)        | ▲ |
| United States                    | 68 (1.5)        | ▲ |
| Netherlands                      | 67 (2.5)        | ▲ |
| Portugal                         | 64 (2.3)        | ▲ |
| Romania                          | 64 (2.2)        | ▲ |
| Sweden                           | 63 (2.2)        | ▲ |
| Hong Kong SAR                    | 63 (2.3)        | ▲ |
| Finland                          | 62 (2.3)        | ▲ |
| Russian Federation               | 61 (2.0)        | ▲ |
| Germany                          | 61 (1.9)        | ▲ |
| Singapore                        | 60 (1.5)        | ▲ |
| Kazakhstan                       | 59 (2.5)        | ▲ |
| Australia                        | 59 (2.3)        | ▲ |
| Ireland                          | 59 (2.9)        | ▲ |
| Hungary                          | 58 (2.1)        | ▲ |
| England                          | 56 (2.3)        | ▲ |
| Austria                          | 55 (2.2)        | ▲ |
| Northern Ireland                 | 55 (3.1)        | ▲ |
| Slovak Republic                  | 53 (2.0)        | ▲ |
| Italy                            | 53 (2.3)        |   |
| Korea, Rep. of                   | 53 (2.3)        |   |
| Malta                            | 52 (2.3)        |   |
| Armenia                          | 52 (2.2)        |   |
| Spain                            | 51 (2.4)        |   |
| New Zealand                      | 50 (2.1)        |   |
| Bahrain                          | 50 (2.5)        |   |
| Georgia                          | 49 (2.5)        |   |
| Chile                            | 49 (1.8)        |   |
| International Avg.               | 49 (0.3)        |   |
| Azerbaijan                       | 48 (2.9)        |   |
| Poland                           | 47 (2.5)        |   |
| Lithuania                        | 46 (2.7)        |   |
| United Arab Emirates             | 45 (1.1)        | ▼ |
| Qatar                            | 43 (2.4)        | ▼ |
| Belgium (Flemish)                | 42 (2.6)        | ▼ |
| Denmark                          | 40 (2.1)        | ▼ |
| Oman                             | 39 (1.7)        | ▼ |
| Czech Republic                   | 38 (2.7)        | ▼ |
| Japan                            | 38 (2.2)        | ▼ |
| Saudi Arabia                     | 37 (2.3)        | ▼ |
| Croatia                          | 36 (2.1)        | ▼ |
| Morocco                          | 35 (2.5)        | ▼ |
| Norway                           | 34 (2.5)        | ▼ |
| Slovenia                         | 32 (2.6)        | ▼ |
| Kuwait                           | 32 (2.3)        | ▼ |
| Turkey                           | 32 (1.6)        | ▼ |
| Iran, Islamic Rep. of            | 32 (1.9)        | ▼ |
| Serbia                           | 31 (1.9)        | ▼ |
| Yemen                            | 31 (1.8)        | ▼ |
| Thailand                         | 30 (2.0)        | ▼ |
| Tunisia                          | 30 (2.8)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 45 (2.3)        |   |
| Yemen                            | 44 (2.7)        |   |
| Botswana                         | 39 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 76 (2.4)        | ▲ |
| North Carolina, US               | 68 (2.8)        | ▲ |
| Quebec, Canada                   | 63 (1.9)        | ▲ |
| Ontario, Canada                  | 60 (2.3)        | ▲ |
| Alberta, Canada                  | 59 (2.3)        | ▲ |
| Dubai, UAE                       | 51 (1.7)        |   |
| Abu Dhabi, UAE                   | 42 (2.5)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_05 (S051173): Calcium important for growth  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Japan                            | 49 (2.5)        | ▲ |
| Denmark                          | 46 (2.1)        | ▲ |
| Finland                          | 42 (2.6)        | ▲ |
| Kazakhstan                       | 40 (3.0)        | ▲ |
| England                          | 38 (2.9)        | ▲ |
| Czech Republic                   | 37 (2.3)        | ▲ |
| Russian Federation               | 35 (2.4)        | ▲ |
| Spain                            | 35 (2.3)        | ▲ |
| Portugal                         | 31 (2.7)        | ▲ |
| Northern Ireland                 | 30 (2.5)        | ▲ |
| Lithuania                        | 30 (1.9)        | ▲ |
| Slovak Republic                  | 28 (2.1)        | ▲ |
| Chile                            | 28 (1.7)        | ▲ |
| Ireland                          | 27 (2.3)        | ▲ |
| Hong Kong SAR                    | 27 (2.5)        | ▲ |
| Singapore                        | 25 (1.7)        | ▲ |
| Poland                           | 24 (2.0)        |   |
| Italy                            | 24 (2.0)        |   |
| Romania                          | 22 (2.5)        |   |
| Korea, Rep. of                   | 21 (1.6)        |   |
| Sweden                           | 21 (2.1)        |   |
| Australia                        | 21 (2.1)        |   |
| New Zealand                      | 21 (1.4)        |   |
| <b>International Avg.</b>        | <b>20 (0.3)</b> |   |
| Hungary                          | 19 (1.7)        |   |
| Thailand                         | 19 (1.9)        |   |
| United States                    | 18 (1.6)        |   |
| Germany                          | 18 (2.1)        |   |
| Chinese Taipei                   | 17 (1.5)        |   |
| Azerbaijan                       | 16 (2.1)        | ▼ |
| Saudi Arabia                     | 15 (2.2)        | ▼ |
| Austria                          | 14 (1.6)        | ▼ |
| Armenia                          | 13 (1.9)        | ▼ |
| Bahrain                          | 13 (1.4)        | ▼ |
| Turkey                           | 13 (1.4)        | ▼ |
| Belgium (Flemish)                | 12 (1.5)        | ▼ |
| Norway                           | 11 (2.1)        | ▼ |
| United Arab Emirates             | 11 (0.8)        | ▼ |
| Serbia                           | 11 (1.3)        | ▼ |
| Croatia                          | 10 (1.3)        | ▼ |
| Slovenia                         | 10 (1.5)        | ▼ |
| Malta                            | 10 (1.4)        | ▼ |
| Qatar                            | 9 (1.4)         | ▼ |
| Netherlands                      | 9 (1.2)         | ▼ |
| Iran, Islamic Rep. of            | 8 (1.0)         | ▼ |
| Georgia                          | 8 (1.5)         | ▼ |
| Oman                             | 7 (1.2)         | ▼ |
| Tunisia                          | 5 (0.6)         | ▼ |
| Morocco                          | 5 (1.1)         | ▼ |
| Kuwait                           | 4 (0.9)         | ▼ |
| Yemen                            | 2 (0.6)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 19 (2.7)        |   |
| Yemen                            | 6 (1.2)         | ▼ |
| Botswana                         | 6 (1.1)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 32 (2.2)        | ▲ |
| Ontario, Canada                  | 29 (2.0)        | ▲ |
| North Carolina, US               | 22 (3.0)        |   |
| Quebec, Canada                   | 21 (2.1)        |   |
| Florida, US                      | 16 (2.4)        |   |
| Dubai, UAE                       | 11 (1.3)        | ▼ |
| Abu Dhabi, UAE                   | 11 (1.6)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_06 (S051086): Temperature of ice, steam, water  
Multiple Choice (Key is A)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| United States                    | 90 (0.8)        | ▲ |
| Netherlands                      | 88 (1.6)        | ▲ |
| Singapore                        | 87 (1.1)        | ▲ |
| Croatia                          | 87 (1.5)        | ▲ |
| Czech Republic                   | 86 (1.6)        | ▲ |
| Hong Kong SAR                    | 86 (1.4)        | ▲ |
| Italy                            | 84 (1.7)        | ▲ |
| Russian Federation               | 84 (2.0)        | ▲ |
| Serbia                           | 84 (1.7)        | ▲ |
| Belgium (Flemish)                | 84 (1.6)        | ▲ |
| Australia                        | 83 (1.9)        | ▲ |
| Slovak Republic                  | 83 (1.6)        | ▲ |
| Denmark                          | 83 (1.8)        | ▲ |
| Finland                          | 82 (2.0)        | ▲ |
| Spain                            | 81 (2.0)        | ▲ |
| Hungary                          | 81 (1.8)        | ▲ |
| Slovenia                         | 80 (2.1)        | ▲ |
| Chile                            | 80 (1.7)        | ▲ |
| England                          | 80 (2.0)        | ▲ |
| Chinese Taipei                   | 80 (1.7)        | ▲ |
| Korea, Rep. of                   | 80 (1.5)        | ▲ |
| Austria                          | 79 (1.9)        | ▲ |
| Northern Ireland                 | 79 (2.1)        | ▲ |
| Germany                          | 79 (1.7)        | ▲ |
| Sweden                           | 79 (2.3)        | ▲ |
| New Zealand                      | 78 (1.8)        | ▲ |
| Ireland                          | 76 (1.9)        |   |
| Norway                           | 75 (3.1)        |   |
| Kazakhstan                       | 73 (2.2)        |   |
| <b>International Avg.</b>        | <b>73 (0.3)</b> |   |
| Japan                            | 72 (1.8)        |   |
| Turkey                           | 71 (1.6)        |   |
| Romania                          | 71 (2.3)        |   |
| Bahrain                          | 71 (2.6)        |   |
| Lithuania                        | 70 (2.3)        |   |
| Malta                            | 70 (2.3)        |   |
| United Arab Emirates             | 69 (1.3)        | ▼ |
| Saudi Arabia                     | 67 (2.5)        | ▼ |
| Azerbaijan                       | 65 (2.4)        | ▼ |
| Poland                           | 63 (1.9)        | ▼ |
| Georgia                          | 62 (2.1)        | ▼ |
| Iran, Islamic Rep. of            | 61 (2.2)        | ▼ |
| Qatar                            | 61 (2.2)        | ▼ |
| Armenia                          | 59 (2.0)        | ▼ |
| Oman                             | 56 (1.6)        | ▼ |
| Kuwait                           | 55 (1.9)        | ▼ |
| Thailand                         | 55 (2.8)        | ▼ |
| Tunisia                          | 41 (3.1)        | ▼ |
| Morocco                          | 37 (2.2)        | ▼ |
| Yemen                            | 29 (1.9)        | ▼ |
| Portugal                         | - -             |   |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 60 (2.3)        | ▼ |
| Yemen                            | 56 (3.0)        | ▼ |
| Botswana                         | 44 (2.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 94 (1.8)        | ▲ |
| North Carolina, US               | 90 (2.3)        | ▲ |
| Alberta, Canada                  | 86 (1.7)        | ▲ |
| Ontario, Canada                  | 85 (1.7)        | ▲ |
| Dubai, UAE                       | 73 (1.7)        |   |
| Quebec, Canada                   | 72 (2.1)        |   |
| Abu Dhabi, UAE                   | 70 (2.4)        |   |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_07 (S051179): Sun reflection in a lake  
Multiple Choice (Key is C)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Chinese Taipei                   | 95 (0.9)        | ▲ |
| Korea, Rep. of                   | 93 (1.1)        | ▲ |
| Poland                           | 93 (1.3)        | ▲ |
| Czech Republic                   | 93 (1.1)        | ▲ |
| Austria                          | 93 (1.0)        | ▲ |
| Northern Ireland                 | 92 (1.4)        | ▲ |
| Italy                            | 92 (1.1)        | ▲ |
| Spain                            | 92 (1.2)        | ▲ |
| Finland                          | 92 (0.9)        | ▲ |
| Germany                          | 91 (1.4)        | ▲ |
| Japan                            | 91 (1.3)        | ▲ |
| Ireland                          | 91 (1.5)        | ▲ |
| United States                    | 90 (0.9)        | ▲ |
| Singapore                        | 90 (1.2)        | ▲ |
| Hungary                          | 90 (1.3)        | ▲ |
| England                          | 88 (1.6)        | ▲ |
| Netherlands                      | 88 (1.6)        | ▲ |
| Portugal                         | 87 (1.6)        | ▲ |
| Belgium (Flemish)                | 87 (1.4)        | ▲ |
| Chile                            | 86 (1.5)        | ▲ |
| Russian Federation               | 85 (1.6)        | ▲ |
| Sweden                           | 85 (1.9)        | ▲ |
| Romania                          | 84 (2.2)        | ▲ |
| Slovak Republic                  | 84 (1.6)        | ▲ |
| Australia                        | 84 (1.8)        | ▲ |
| New Zealand                      | 84 (1.6)        | ▲ |
| Lithuania                        | 79 (2.0)        |   |
| Malta                            | 77 (2.0)        |   |
| Thailand                         | 76 (2.4)        |   |
| <b>International Avg.</b>        | <b>76 (0.3)</b> |   |
| Hong Kong SAR                    | 73 (2.0)        |   |
| Denmark                          | 73 (1.9)        |   |
| Bahrain                          | 72 (1.9)        |   |
| Slovenia                         | 70 (2.2)        | ▼ |
| Turkey                           | 70 (1.5)        | ▼ |
| Saudi Arabia                     | 70 (2.5)        | ▼ |
| Azerbaijan                       | 66 (2.2)        | ▼ |
| United Arab Emirates             | 66 (1.3)        | ▼ |
| Kazakhstan                       | 64 (2.7)        | ▼ |
| Norway                           | 63 (2.9)        | ▼ |
| Croatia                          | 62 (1.9)        | ▼ |
| Serbia                           | 61 (2.6)        | ▼ |
| Qatar                            | 59 (2.2)        | ▼ |
| Kuwait                           | 58 (2.4)        | ▼ |
| Georgia                          | 52 (2.7)        | ▼ |
| Iran, Islamic Rep. of            | 52 (2.0)        | ▼ |
| Oman                             | 52 (1.8)        | ▼ |
| Tunisia                          | 43 (2.4)        | ▼ |
| Yemen                            | 36 (2.0)        | ▼ |
| Morocco                          | 34 (2.2)        | ▼ |
| Armenia                          | 30 (2.2)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 64 (2.8)        | ▼ |
| Yemen                            | 51 (2.4)        | ▼ |
| Botswana                         | 49 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 94 (1.7)        | ▲ |
| Alberta, Canada                  | 93 (1.0)        | ▲ |
| North Carolina, US               | 89 (2.5)        | ▲ |
| Ontario, Canada                  | 87 (1.5)        | ▲ |
| Quebec, Canada                   | 76 (2.1)        |   |
| Dubai, UAE                       | 72 (1.8)        |   |
| Abu Dhabi, UAE                   | 62 (2.7)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_08 (S051074): Will the bulb light  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Japan                            | 72 (2.1) ▲      |
| Chinese Taipei                   | 68 (2.1) ▲      |
| England                          | 59 (2.5) ▲      |
| Slovenia                         | 56 (2.9) ▲      |
| Singapore                        | 51 (1.8) ▲      |
| Germany                          | 42 (2.6) ▲      |
| United States                    | 42 (1.7) ▲      |
| Bahrain                          | 40 (2.5) ▲      |
| Slovak Republic                  | 40 (2.4) ▲      |
| Turkey                           | 36 (2.0) ▲      |
| Korea, Rep. of                   | 35 (1.9) ▲      |
| Oman                             | 34 (1.9) ▲      |
| Kuwait                           | 34 (1.9) ▲      |
| Northern Ireland                 | 33 (3.0) ▲      |
| Iran, Islamic Rep. of            | 33 (1.6) ▲      |
| Saudi Arabia                     | 32 (3.1) ▲      |
| Finland                          | 32 (2.3) ▲      |
| Qatar                            | 30 (1.6)        |
| Lithuania                        | 30 (2.0)        |
| Malta                            | 30 (1.9)        |
| Austria                          | 29 (2.1)        |
| <b>International Avg.</b>        | <b>27 (0.3)</b> |
| United Arab Emirates             | 27 (1.3)        |
| Denmark                          | 27 (2.1)        |
| Sweden                           | 26 (2.8)        |
| Czech Republic                   | 26 (2.3)        |
| Romania                          | 25 (2.1)        |
| Serbia                           | 25 (2.3)        |
| Russian Federation               | 25 (2.0)        |
| Netherlands                      | 24 (2.1)        |
| Ireland                          | 22 (2.1) ▼      |
| Hong Kong SAR                    | 22 (2.1) ▼      |
| Thailand                         | 20 (2.0) ▼      |
| New Zealand                      | 20 (1.4) ▼      |
| Kazakhstan                       | 20 (2.2) ▼      |
| Portugal                         | 19 (2.4) ▼      |
| Australia                        | 18 (2.0) ▼      |
| Armenia                          | 17 (1.6) ▼      |
| Spain                            | 15 (1.6) ▼      |
| Croatia                          | 14 (1.7) ▼      |
| Poland                           | 14 (1.4) ▼      |
| Belgium (Flemish)                | 14 (1.7) ▼      |
| Hungary                          | 13 (1.4) ▼      |
| Azerbaijan                       | 13 (1.7) ▼      |
| Georgia                          | 12 (1.6) ▼      |
| Chile                            | 11 (1.1) ▼      |
| Tunisia                          | 11 (1.7) ▼      |
| Italy                            | 10 (1.6) ▼      |
| Morocco                          | 10 (1.1) ▼      |
| Norway                           | 7 (1.2) ▼       |
| Yemen                            | 5 (0.8) ▼       |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 29 (2.0)        |
| Yemen                            | 28 (2.6)        |
| Botswana                         | 7 (1.5) ▼       |
| <b>Benchmarking Participants</b> |                 |
| North Carolina, US               | 43 (3.8) ▲      |
| Dubai, UAE                       | 30 (1.5)        |
| Abu Dhabi, UAE                   | 28 (2.9)        |
| Florida, US                      | 24 (2.1)        |
| Alberta, Canada                  | 21 (2.1) ▼      |
| Quebec, Canada                   | 15 (1.7) ▼      |
| Ontario, Canada                  | 12 (1.2) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_09 (S051119): Two magnets and two metal pins  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Singapore                        | 66 (2.0)        | ▲ |
| Japan                            | 50 (1.8)        | ▲ |
| Chinese Taipei                   | 47 (2.3)        | ▲ |
| Finland                          | 41 (2.6)        | ▲ |
| Sweden                           | 37 (2.6)        | ▲ |
| United States                    | 37 (1.4)        | ▲ |
| England                          | 35 (2.4)        | ▲ |
| Portugal                         | 35 (2.1)        | ▲ |
| Belgium (Flemish)                | 35 (2.2)        | ▲ |
| Slovenia                         | 32 (2.2)        | ▲ |
| Norway                           | 32 (3.4)        |   |
| Hong Kong SAR                    | 31 (2.3)        | ▲ |
| Northern Ireland                 | 30 (2.3)        |   |
| Netherlands                      | 30 (2.1)        |   |
| Serbia                           | 29 (1.9)        |   |
| Turkey                           | 29 (1.7)        |   |
| Denmark                          | 28 (2.0)        |   |
| Czech Republic                   | 28 (2.4)        |   |
| Germany                          | 28 (1.7)        |   |
| Ireland                          | 28 (2.4)        |   |
| Spain                            | 27 (1.9)        |   |
| Australia                        | 27 (1.8)        |   |
| Korea, Rep. of                   | 27 (1.6)        |   |
| Russian Federation               | 27 (1.9)        |   |
| Kazakhstan                       | 27 (2.4)        |   |
| Poland                           | 26 (1.9)        |   |
| <b>International Avg.</b>        | <b>26 (0.3)</b> |   |
| Georgia                          | 26 (2.3)        |   |
| Iran, Islamic Rep. of            | 26 (1.7)        |   |
| Bahrain                          | 26 (1.6)        |   |
| New Zealand                      | 25 (1.9)        |   |
| Malta                            | 25 (1.9)        |   |
| Lithuania                        | 24 (1.8)        |   |
| Romania                          | 23 (2.4)        |   |
| Thailand                         | 23 (1.7)        | ▼ |
| Italy                            | 23 (1.9)        |   |
| Hungary                          | 23 (1.8)        | ▼ |
| Saudi Arabia                     | 22 (2.1)        | ▼ |
| Austria                          | 21 (1.7)        | ▼ |
| Slovak Republic                  | 20 (1.6)        | ▼ |
| Chile                            | 20 (1.7)        | ▼ |
| Tunisia                          | 19 (2.1)        | ▼ |
| United Arab Emirates             | 19 (1.0)        | ▼ |
| Qatar                            | 17 (1.9)        | ▼ |
| Croatia                          | 17 (1.6)        | ▼ |
| Kuwait                           | 15 (1.5)        | ▼ |
| Armenia                          | 14 (1.6)        | ▼ |
| Azerbaijan                       | 12 (1.8)        | ▼ |
| Oman                             | 6 (0.8)         | ▼ |
| Morocco                          | 5 (0.7)         | ▼ |
| Yemen                            | 1 (0.4)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 19 (2.3)        | ▼ |
| Yemen                            | 10 (1.5)        | ▼ |
| Botswana                         | 9 (1.2)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Ontario, Canada                  | 39 (2.3)        | ▲ |
| Florida, US                      | 38 (2.6)        | ▲ |
| Alberta, Canada                  | 34 (2.4)        | ▲ |
| North Carolina, US               | 34 (3.5)        | ▲ |
| Quebec, Canada                   | 31 (2.2)        | ▲ |
| Dubai, UAE                       | 22 (2.2)        |   |
| Abu Dhabi, UAE                   | 17 (1.9)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_10 (S051071): Children on seesaw  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 81 (1.6)        | ▲ |
| Finland                          | 68 (2.2)        | ▲ |
| Japan                            | 66 (1.8)        | ▲ |
| Sweden                           | 63 (2.3)        | ▲ |
| Netherlands                      | 63 (2.3)        | ▲ |
| Czech Republic                   | 61 (3.2)        | ▲ |
| Germany                          | 61 (2.4)        | ▲ |
| Denmark                          | 60 (2.1)        | ▲ |
| Lithuania                        | 56 (2.5)        | ▲ |
| Slovenia                         | 54 (2.1)        | ▲ |
| Austria                          | 53 (2.4)        | ▲ |
| Russian Federation               | 52 (2.5)        | ▲ |
| Norway                           | 52 (2.4)        | ▲ |
| Serbia                           | 51 (2.7)        | ▲ |
| Hungary                          | 51 (2.3)        | ▲ |
| Singapore                        | 51 (1.8)        | ▲ |
| Slovak Republic                  | 50 (2.2)        | ▲ |
| England                          | 50 (2.5)        | ▲ |
| New Zealand                      | 49 (2.4)        | ▲ |
| Belgium (Flemish)                | 48 (2.0)        |   |
| Hong Kong SAR                    | 48 (2.4)        |   |
| Australia                        | 47 (1.8)        |   |
| Croatia                          | 47 (2.4)        |   |
| United States                    | 46 (1.5)        |   |
| Chinese Taipei                   | 46 (1.9)        |   |
| Romania                          | 45 (3.0)        |   |
| <b>International Avg.</b>        | <b>44 (0.3)</b> |   |
| Italy                            | 42 (2.1)        |   |
| Kazakhstan                       | 42 (2.9)        |   |
| Northern Ireland                 | 40 (2.3)        |   |
| Ireland                          | 40 (2.5)        |   |
| Spain                            | 40 (2.3)        |   |
| Poland                           | 39 (2.1)        | ▼ |
| Portugal                         | 38 (2.6)        | ▼ |
| Azerbaijan                       | 38 (2.8)        | ▼ |
| Chile                            | 37 (1.8)        | ▼ |
| Turkey                           | 37 (1.8)        | ▼ |
| Saudi Arabia                     | 36 (2.6)        | ▼ |
| Malta                            | 35 (2.2)        | ▼ |
| Thailand                         | 34 (2.3)        | ▼ |
| Georgia                          | 34 (2.4)        | ▼ |
| Iran, Islamic Rep. of            | 31 (1.8)        | ▼ |
| United Arab Emirates             | 30 (1.0)        | ▼ |
| Qatar                            | 30 (2.2)        | ▼ |
| Oman                             | 27 (1.7)        | ▼ |
| Bahrain                          | 27 (2.2)        | ▼ |
| Armenia                          | 25 (2.0)        | ▼ |
| Morocco                          | 21 (2.4)        | ▼ |
| Kuwait                           | 21 (1.7)        | ▼ |
| Tunisia                          | 20 (2.2)        | ▼ |
| Yemen                            | 16 (1.4)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 29 (1.9)        | ▼ |
| Yemen                            | 26 (2.4)        | ▼ |
| Botswana                         | 24 (1.8)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 52 (2.9)        | ▲ |
| Quebec, Canada                   | 51 (2.6)        | ▲ |
| Florida, US                      | 49 (2.8)        |   |
| Ontario, Canada                  | 45 (2.3)        |   |
| North Carolina, US               | 41 (2.6)        |   |
| Dubai, UAE                       | 32 (1.7)        | ▼ |
| Abu Dhabi, UAE                   | 28 (2.0)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_11 (S051100): Which made from waterfall energy  
Multiple Choice (Key is C)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Austria                          | 72 (2.3)        | ▲ |
| Serbia                           | 68 (2.5)        | ▲ |
| Germany                          | 63 (2.1)        | ▲ |
| Finland                          | 59 (2.2)        | ▲ |
| Romania                          | 56 (2.6)        | ▲ |
| Croatia                          | 54 (2.0)        | ▲ |
| Iran, Islamic Rep. of            | 52 (2.0)        | ▲ |
| Norway                           | 51 (2.9)        | ▲ |
| Sweden                           | 50 (2.7)        | ▲ |
| Azerbaijan                       | 49 (2.7)        | ▲ |
| Korea, Rep. of                   | 47 (2.0)        | ▲ |
| Italy                            | 42 (2.5)        | ▲ |
| Hong Kong SAR                    | 41 (2.7)        | ▲ |
| Czech Republic                   | 41 (2.6)        | ▲ |
| Russian Federation               | 34 (2.6)        |   |
| Portugal                         | 33 (3.0)        |   |
| Thailand                         | 33 (2.0)        |   |
| <b>International Avg.</b>        | <b>31 (0.3)</b> |   |
| Hungary                          | 31 (1.6)        |   |
| Netherlands                      | 31 (2.0)        |   |
| Slovenia                         | 31 (2.2)        |   |
| Kazakhstan                       | 30 (2.6)        |   |
| Georgia                          | 29 (2.2)        |   |
| Denmark                          | 29 (1.9)        |   |
| Armenia                          | 29 (2.6)        |   |
| Poland                           | 28 (2.1)        |   |
| Lithuania                        | 28 (2.1)        |   |
| Belgium (Flemish)                | 28 (2.2)        |   |
| Spain                            | 28 (2.4)        |   |
| Japan                            | 26 (1.9)        | ▼ |
| Turkey                           | 25 (1.9)        | ▼ |
| Slovak Republic                  | 24 (2.1)        | ▼ |
| New Zealand                      | 24 (1.6)        | ▼ |
| Ireland                          | 24 (2.4)        | ▼ |
| Chinese Taipei                   | 21 (1.7)        | ▼ |
| Chile                            | 19 (1.5)        | ▼ |
| Qatar                            | 19 (2.4)        | ▼ |
| United States                    | 19 (1.2)        | ▼ |
| Singapore                        | 17 (1.3)        | ▼ |
| United Arab Emirates             | 16 (1.1)        | ▼ |
| Yemen                            | 15 (1.6)        | ▼ |
| Morocco                          | 15 (1.8)        | ▼ |
| Bahrain                          | 14 (1.6)        | ▼ |
| Tunisia                          | 14 (1.8)        | ▼ |
| England                          | 13 (1.5)        | ▼ |
| Oman                             | 13 (1.1)        | ▼ |
| Northern Ireland                 | 12 (2.0)        | ▼ |
| Australia                        | 12 (1.1)        | ▼ |
| Saudi Arabia                     | 12 (2.0)        | ▼ |
| Malta                            | 10 (1.4)        | ▼ |
| Kuwait                           | - -             |   |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 32 (3.3)        |   |
| Yemen                            | 24 (2.1)        | ▼ |
| Botswana                         | 22 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Quebec, Canada                   | 42 (2.8)        | ▲ |
| Ontario, Canada                  | 28 (2.1)        |   |
| Alberta, Canada                  | 25 (2.3)        | ▼ |
| North Carolina, US               | 21 (3.0)        | ▼ |
| Dubai, UAE                       | 19 (1.4)        | ▼ |
| Florida, US                      | 17 (2.5)        | ▼ |
| Abu Dhabi, UAE                   | 12 (1.5)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S02\_12 (S051156): How long ago was plant alive?  
Multiple Choice (Key is D)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 64 (1.9)        | ▲ |
| Germany                          | 42 (2.0)        | ▲ |
| Slovak Republic                  | 42 (2.4)        | ▲ |
| Czech Republic                   | 40 (2.7)        | ▲ |
| Austria                          | 40 (2.4)        | ▲ |
| Italy                            | 40 (2.0)        | ▲ |
| Japan                            | 39 (2.1)        | ▲ |
| Georgia                          | 36 (2.3)        | ▲ |
| Chinese Taipei                   | 35 (2.2)        | ▲ |
| Norway                           | 35 (3.4)        | ▲ |
| Sweden                           | 35 (2.2)        | ▲ |
| Spain                            | 34 (2.3)        | ▲ |
| Hong Kong SAR                    | 34 (2.0)        | ▲ |
| United States                    | 33 (1.3)        | ▲ |
| Slovenia                         | 32 (2.0)        | ▲ |
| Singapore                        | 32 (1.7)        | ▲ |
| Finland                          | 31 (2.0)        |   |
| Hungary                          | 31 (1.8)        |   |
| Denmark                          | 31 (2.3)        |   |
| Kuwait                           | 30 (2.4)        |   |
| Poland                           | 30 (2.0)        |   |
| Russian Federation               | 29 (2.5)        |   |
| Azerbaijan                       | 28 (2.5)        |   |
| <b>International Avg.</b>        | <b>28 (0.3)</b> |   |
| England                          | 27 (1.9)        |   |
| Romania                          | 26 (2.2)        |   |
| Australia                        | 26 (1.9)        |   |
| Ireland                          | 25 (2.1)        |   |
| New Zealand                      | 25 (1.9)        |   |
| Malta                            | 25 (1.9)        |   |
| United Arab Emirates             | 24 (1.2)        | ▼ |
| Croatia                          | 23 (1.7)        | ▼ |
| Kazakhstan                       | 23 (2.2)        | ▼ |
| Qatar                            | 23 (1.6)        | ▼ |
| Chile                            | 22 (1.6)        | ▼ |
| Serbia                           | 22 (2.0)        | ▼ |
| Iran, Islamic Rep. of            | 21 (1.5)        | ▼ |
| Portugal                         | 21 (1.9)        | ▼ |
| Armenia                          | 21 (1.8)        | ▼ |
| Thailand                         | 21 (2.3)        | ▼ |
| Turkey                           | 20 (1.5)        | ▼ |
| Northern Ireland                 | 20 (1.7)        | ▼ |
| Oman                             | 20 (1.7)        | ▼ |
| Saudi Arabia                     | 19 (2.5)        | ▼ |
| Tunisia                          | 19 (1.8)        | ▼ |
| Yemen                            | 18 (1.5)        | ▼ |
| Morocco                          | 17 (1.8)        | ▼ |
| Belgium (Flemish)                | 17 (2.0)        | ▼ |
| Bahrain                          | 16 (1.5)        | ▼ |
| Lithuania                        | 16 (2.1)        | ▼ |
| Netherlands                      | 15 (1.5)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 30 (3.0)        |   |
| Yemen                            | 17 (1.6)        | ▼ |
| Botswana                         | 15 (1.7)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 43 (2.4)        | ▲ |
| Florida, US                      | 36 (2.2)        | ▲ |
| Quebec, Canada                   | 32 (2.6)        |   |
| Ontario, Canada                  | 31 (1.7)        | ▲ |
| North Carolina, US               | 29 (2.3)        |   |
| Dubai, UAE                       | 28 (1.5)        |   |
| Abu Dhabi, UAE                   | 22 (2.1)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_01 (S041117): Force causing boat to sail  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Chinese Taipei                   | 99 (0.4)        | ▲ |
| Czech Republic                   | 98 (0.6)        | ▲ |
| Slovenia                         | 98 (0.6)        | ▲ |
| Austria                          | 98 (0.7)        | ▲ |
| Croatia                          | 98 (0.6)        | ▲ |
| Poland                           | 97 (0.7)        | ▲ |
| Germany                          | 97 (0.7)        | ▲ |
| Finland                          | 97 (0.9)        | ▲ |
| Italy                            | 96 (0.9)        | ▲ |
| Portugal                         | 96 (1.1)        | ▲ |
| Russian Federation               | 96 (0.9)        | ▲ |
| Sweden                           | 95 (0.9)        | ▲ |
| Australia                        | 95 (0.9)        | ▲ |
| Serbia                           | 95 (0.9)        | ▲ |
| Northern Ireland                 | 95 (1.1)        | ▲ |
| Denmark                          | 94 (1.0)        | ▲ |
| Netherlands                      | 94 (1.0)        | ▲ |
| Slovak Republic                  | 94 (0.9)        | ▲ |
| Norway                           | 93 (1.7)        | ▲ |
| New Zealand                      | 93 (1.1)        | ▲ |
| Ireland                          | 93 (1.2)        | ▲ |
| Lithuania                        | 93 (1.3)        | ▲ |
| Hungary                          | 93 (0.9)        | ▲ |
| Japan                            | 93 (1.0)        | ▲ |
| United States                    | 93 (0.8)        | ▲ |
| Spain                            | 92 (1.1)        | ▲ |
| Singapore                        | 92 (0.9)        | ▲ |
| Korea, Rep. of                   | 91 (1.1)        |   |
| Romania                          | 91 (1.6)        |   |
| England                          | 91 (1.3)        |   |
| Belgium (Flemish)                | 90 (1.3)        |   |
| <b>International Avg.</b>        | <b>90 (0.2)</b> |   |
| Hong Kong SAR                    | 90 (1.2)        |   |
| Malta                            | 88 (1.4)        |   |
| Bahrain                          | 88 (1.7)        |   |
| Turkey                           | 87 (1.0)        | ▼ |
| Kazakhstan                       | 87 (1.5)        |   |
| Azerbaijan                       | 87 (1.8)        |   |
| Chile                            | 86 (1.5)        | ▼ |
| United Arab Emirates             | 85 (1.1)        | ▼ |
| Iran, Islamic Rep. of            | 84 (1.3)        | ▼ |
| Tunisia                          | 83 (1.8)        | ▼ |
| Georgia                          | 83 (2.1)        | ▼ |
| Qatar                            | 81 (1.9)        | ▼ |
| Saudi Arabia                     | 81 (2.3)        | ▼ |
| Oman                             | 80 (1.7)        | ▼ |
| Thailand                         | 79 (2.0)        | ▼ |
| Armenia                          | 75 (1.9)        | ▼ |
| Kuwait                           | 74 (2.0)        | ▼ |
| Morocco                          | 71 (1.5)        | ▼ |
| Yemen                            | 60 (2.5)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 84 (1.9)        | ▼ |
| Yemen                            | 82 (2.0)        | ▼ |
| Botswana                         | 58 (2.0)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 95 (1.0)        | ▲ |
| Florida, US                      | 94 (1.2)        | ▲ |
| Ontario, Canada                  | 94 (1.0)        | ▲ |
| North Carolina, US               | 94 (1.7)        | ▲ |
| Quebec, Canada                   | 93 (1.3)        | ▲ |
| Dubai, UAE                       | 87 (1.0)        | ▼ |
| Abu Dhabi, UAE                   | 86 (1.8)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_02 (S041120): Objects that produce light  
Multiple Choice (Key is C)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Czech Republic                   | 86 (1.9)        | ▲ |
| Singapore                        | 81 (1.4)        | ▲ |
| Slovak Republic                  | 70 (2.0)        | ▲ |
| Georgia                          | 65 (2.4)        | ▲ |
| Slovenia                         | 64 (2.6)        | ▲ |
| Croatia                          | 62 (1.9)        | ▲ |
| Lithuania                        | 59 (1.9)        | ▲ |
| Finland                          | 59 (2.4)        | ▲ |
| Azerbaijan                       | 58 (2.5)        | ▲ |
| Iran, Islamic Rep. of            | 57 (1.6)        | ▲ |
| Portugal                         | 56 (2.7)        | ▲ |
| Romania                          | 56 (2.4)        | ▲ |
| Italy                            | 56 (2.0)        | ▲ |
| Oman                             | 55 (1.9)        | ▲ |
| Russian Federation               | 55 (2.2)        | ▲ |
| Spain                            | 54 (2.5)        |   |
| United Arab Emirates             | 54 (1.2)        | ▲ |
| Qatar                            | 53 (3.0)        |   |
| Serbia                           | 53 (2.6)        |   |
| Bahrain                          | 52 (2.3)        |   |
| United States                    | 51 (1.5)        |   |
| Sweden                           | 51 (2.8)        |   |
| Saudi Arabia                     | 50 (2.6)        |   |
| Austria                          | 50 (1.9)        |   |
| <b>International Avg.</b>        | <b>50 (0.3)</b> |   |
| Germany                          | 49 (2.2)        |   |
| Kuwait                           | 48 (2.3)        |   |
| Turkey                           | 48 (1.8)        |   |
| Armenia                          | 48 (2.0)        |   |
| Poland                           | 47 (2.1)        |   |
| Malta                            | 46 (2.2)        |   |
| Chile                            | 46 (2.1)        |   |
| Kazakhstan                       | 46 (2.5)        |   |
| New Zealand                      | 45 (2.3)        | ▼ |
| Australia                        | 45 (2.3)        | ▼ |
| Ireland                          | 45 (2.8)        | ▼ |
| Yemen                            | 44 (2.1)        | ▼ |
| Hungary                          | 44 (2.5)        | ▼ |
| Belgium (Flemish)                | 43 (2.3)        | ▼ |
| England                          | 42 (2.3)        | ▼ |
| Netherlands                      | 41 (2.3)        | ▼ |
| Tunisia                          | 41 (2.5)        | ▼ |
| Chinese Taipei                   | 40 (2.0)        | ▼ |
| Denmark                          | 40 (2.2)        | ▼ |
| Northern Ireland                 | 39 (2.6)        | ▼ |
| Korea, Rep. of                   | 38 (1.9)        | ▼ |
| Thailand                         | 36 (2.1)        | ▼ |
| Morocco                          | 36 (2.0)        | ▼ |
| Japan                            | 35 (1.9)        | ▼ |
| Norway                           | 32 (2.4)        | ▼ |
| Hong Kong SAR                    | 28 (2.4)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 39 (2.6)        | ▼ |
| Yemen                            | 39 (1.9)        | ▼ |
| Botswana                         | 38 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 57 (2.5)        | ▲ |
| Abu Dhabi, UAE                   | 56 (2.3)        | ▲ |
| Florida, US                      | 53 (2.7)        |   |
| Dubai, UAE                       | 51 (2.2)        |   |
| North Carolina, US               | 45 (2.8)        |   |
| Ontario, Canada                  | 45 (2.6)        | ▼ |
| Quebec, Canada                   | 39 (2.4)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_03 (S041003): Living-nonliving things in a pond  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Singapore                        | 88 (1.3)        | ▲ |
| Serbia                           | 75 (2.3)        | ▲ |
| Hungary                          | 70 (2.0)        | ▲ |
| Kazakhstan                       | 69 (2.7)        | ▲ |
| Italy                            | 67 (1.8)        | ▲ |
| Finland                          | 66 (2.1)        | ▲ |
| Spain                            | 66 (2.5)        | ▲ |
| Slovak Republic                  | 66 (2.2)        | ▲ |
| Croatia                          | 65 (1.8)        | ▲ |
| Chile                            | 64 (1.7)        | ▲ |
| Turkey                           | 62 (2.0)        | ▲ |
| Thailand                         | 61 (2.6)        | ▲ |
| Russian Federation               | 60 (3.2)        | ▲ |
| Slovenia                         | 58 (2.1)        | ▲ |
| United States                    | 58 (1.5)        | ▲ |
| Czech Republic                   | 55 (2.5)        | ▲ |
| Oman                             | 55 (1.8)        | ▲ |
| Bahrain                          | 55 (2.7)        | ▲ |
| Lithuania                        | 54 (2.3)        | ▲ |
| Netherlands                      | 52 (1.9)        | ▲ |
| Australia                        | 49 (2.0)        |   |
| Sweden                           | 48 (2.5)        |   |
| <b>International Avg.</b>        | <b>47 (0.3)</b> |   |
| United Arab Emirates             | 47 (1.4)        |   |
| Azerbaijan                       | 47 (2.8)        |   |
| Iran, Islamic Rep. of            | 47 (2.2)        |   |
| Korea, Rep. of                   | 46 (1.9)        |   |
| Portugal                         | 46 (3.0)        |   |
| England                          | 46 (2.3)        |   |
| Romania                          | 45 (2.4)        |   |
| Denmark                          | 45 (2.3)        |   |
| Malta                            | 44 (2.3)        |   |
| Norway                           | 43 (3.4)        |   |
| New Zealand                      | 42 (1.9)        | ▼ |
| Ireland                          | 41 (2.0)        | ▼ |
| Saudi Arabia                     | 40 (2.6)        | ▼ |
| Qatar                            | 40 (2.5)        | ▼ |
| Germany                          | 40 (2.3)        | ▼ |
| Hong Kong SAR                    | 39 (2.4)        | ▼ |
| Japan                            | 39 (1.8)        | ▼ |
| Belgium (Flemish)                | 38 (2.2)        | ▼ |
| Northern Ireland                 | 34 (2.3)        | ▼ |
| Austria                          | 31 (2.1)        | ▼ |
| Armenia                          | 30 (2.1)        | ▼ |
| Poland                           | 21 (1.7)        | ▼ |
| Morocco                          | 20 (1.8)        | ▼ |
| Georgia                          | 19 (2.0)        | ▼ |
| Kuwait                           | 19 (1.8)        | ▼ |
| Chinese Taipei                   | 17 (1.4)        | ▼ |
| Tunisia                          | 15 (1.6)        | ▼ |
| Yemen                            | 13 (1.4)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 35 (2.5)        | ▼ |
| Yemen                            | 28 (2.6)        | ▼ |
| Botswana                         | 25 (1.9)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 63 (2.5)        | ▲ |
| Ontario, Canada                  | 56 (2.3)        | ▲ |
| Florida, US                      | 56 (3.3)        | ▲ |
| Quebec, Canada                   | 52 (2.3)        | ▲ |
| Dubai, UAE                       | 52 (2.0)        | ▲ |
| North Carolina, US               | 42 (3.2)        |   |
| Abu Dhabi, UAE                   | 41 (2.2)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_04 (S041224): Flowering plant parts  
Constructed Response (2 Points)

| Country                          | Percent Full Credit | Percent at Least 1 Point |
|----------------------------------|---------------------|--------------------------|
| Singapore                        | 80 (1.6) ●          | 93 (0.9) ●               |
| Korea, Rep. of                   | 42 (2.2) ▲          | 89 (1.3) ●               |
| Thailand                         | 40 (2.7) ▲          | 73 (2.5) ●               |
| Czech Republic                   | 39 (2.8) ●          | 74 (2.3) ●               |
| Bahrain                          | 37 (2.7) ●          | 70 (2.8) ●               |
| Italy                            | 36 (2.4) ●          | 77 (1.9) ●               |
| Romania                          | 35 (2.6) ▲          | 56 (2.8)                 |
| Hungary                          | 34 (2.5) ▲          | 73 (2.2) ▲               |
| Croatia                          | 33 (2.2) ●          | 62 (2.7) ●               |
| Finland                          | 32 (2.3) ●          | 75 (2.0) ●               |
| Portugal                         | 31 (3.0) ●          | 69 (2.3) ●               |
| Iran, Islamic Rep. of            | 28 (2.1) ▲          | 56 (2.0)                 |
| Kazakhstan                       | 27 (2.5) ●          | 45 (2.5) ▼               |
| Chinese Taipei                   | 26 (1.8) ●          | 52 (2.6)                 |
| Austria                          | 25 (2.2) ●          | 63 (2.4) ●               |
| Slovak Republic                  | 25 (2.2) ●          | 62 (2.5) ●               |
| United States                    | 24 (1.0) ●          | 62 (1.5) ●               |
| Serbia                           | 23 (2.0)            | 53 (2.8)                 |
| United Arab Emirates             | 22 (1.3)            | 47 (1.4) ▼               |
| Lithuania                        | 21 (1.8)            | 57 (2.5)                 |
| England                          | 21 (2.8)            | 58 (2.7) ●               |
| <b>International Avg.</b>        | <b>21 (0.3)</b>     | <b>52 (0.3)</b>          |
| Russian Federation               | 20 (1.8)            | 59 (2.6) ●               |
| Japan                            | 20 (1.6)            | 76 (1.6) ●               |
| Oman                             | 19 (1.7)            | 36 (1.8) ▼               |
| Sweden                           | 18 (1.9)            | 60 (2.3) ●               |
| Kuwait                           | 18 (1.6)            | 37 (2.1) ▼               |
| Saudi Arabia                     | 16 (2.3)            | 42 (3.1) ▼               |
| Hong Kong SAR                    | 16 (1.5) ▼          | 66 (2.2) ●               |
| Spain                            | 16 (1.8) ▼          | 56 (2.2)                 |
| Slovenia                         | 15 (1.6) ▼          | 58 (2.6) ●               |
| Denmark                          | 15 (1.6) ▼          | 52 (2.1)                 |
| Azerbaijan                       | 15 (2.0) ▼          | 24 (2.4) ▼               |
| Qatar                            | 13 (1.7) ▼          | 37 (2.2) ▼               |
| Chile                            | 13 (1.3) ▼          | 54 (2.1)                 |
| Poland                           | 13 (1.8) ▼          | 45 (2.3) ▼               |
| Morocco                          | 12 (1.2) ▼          | 14 (1.4) ▼               |
| Turkey                           | 11 (1.1) ▼          | 47 (2.0) ▼               |
| Ireland                          | 10 (1.9) ▼          | 46 (2.6) ▼               |
| Georgia                          | 10 (1.9) ▼          | 30 (2.3) ▼               |
| Germany                          | 10 (1.2) ▼          | 59 (2.2) ●               |
| Australia                        | 10 (1.3) ▼          | 44 (2.0) ▼               |
| Armenia                          | 10 (1.7) ▼          | 24 (2.6) ▼               |
| Northern Ireland                 | 9 (1.4) ▼           | 43 (3.1) ▼               |
| Netherlands                      | 8 (1.3) ▼           | 59 (2.4) ●               |
| Belgium (Flemish)                | 6 (1.0) ▼           | 45 (2.4) ▼               |
| Malta                            | 6 (1.0) ▼           | 26 (2.1) ▼               |
| New Zealand                      | 6 (1.0) ▼           | 50 (2.0)                 |
| Norway                           | 4 (1.1) ▼           | 41 (2.8) ▼               |
| Tunisia                          | 2 (0.8) ▼           | 18 (2.2) ▼               |
| Yemen                            | 1 (0.5) ▼           | 6 (1.1) ▼                |
| <b>Sixth Grade Participants</b>  |                     |                          |
| Honduras                         | 16 (1.7) ▼          | 47 (2.4) ▼               |
| Yemen                            | 4 (0.9) ▼           | 22 (2.1) ▼               |
| Botswana                         | 3 (0.7) ▼           | 15 (1.7) ▼               |
| <b>Benchmarking Participants</b> |                     |                          |
| Dubai, UAE                       | 31 (2.0) ●          | 57 (1.6) ●               |
| Florida, US                      | 24 (2.8)            | 63 (3.0) ●               |
| Ontario, Canada                  | 22 (1.8)            | 63 (1.9) ●               |
| Alberta, Canada                  | 21 (2.4)            | 61 (2.6) ●               |
| Abu Dhabi, UAE                   | 17 (2.1)            | 41 (2.4) ▼               |
| North Carolina, US               | 13 (2.3) ▼          | 53 (4.0)                 |
| Quebec, Canada                   | 8 (1.4) ▼           | 50 (2.8)                 |

- Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_05 (S041163): Group of animals contains reptiles  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Chinese Taipei                   | 70 (1.9)        | ▲ |
| Lithuania                        | 56 (2.2)        | ▲ |
| Singapore                        | 56 (1.7)        | ▲ |
| United States                    | 55 (1.7)        | ▲ |
| Australia                        | 53 (2.0)        | ▲ |
| Oman                             | 52 (1.6)        | ▲ |
| Slovenia                         | 51 (2.4)        | ▲ |
| Ireland                          | 51 (2.2)        | ▲ |
| Slovak Republic                  | 50 (2.7)        | ▲ |
| Bahrain                          | 49 (2.5)        | ▲ |
| Czech Republic                   | 48 (2.7)        | ▲ |
| Thailand                         | 48 (2.6)        | ▲ |
| Saudi Arabia                     | 48 (2.3)        | ▲ |
| Iran, Islamic Rep. of            | 47 (2.4)        | ▲ |
| Germany                          | 47 (2.6)        | ▲ |
| Northern Ireland                 | 47 (2.5)        | ▲ |
| Hong Kong SAR                    | 46 (2.2)        | ▲ |
| England                          | 46 (3.0)        | ▲ |
| Kuwait                           | 45 (2.4)        | ▲ |
| Italy                            | 45 (2.5)        | ▲ |
| Russian Federation               | 45 (1.7)        | ▲ |
| Belgium (Flemish)                | 45 (2.3)        | ▲ |
| New Zealand                      | 44 (2.0)        | ▲ |
| United Arab Emirates             | 44 (1.2)        | ▲ |
| Netherlands                      | 44 (2.4)        |   |
| Chile                            | 44 (2.2)        |   |
| Austria                          | 41 (2.6)        |   |
| Qatar                            | 40 (2.2)        |   |
| Azerbaijan                       | 40 (2.5)        |   |
| <b>International Avg.</b>        | <b>40 (0.3)</b> |   |
| Spain                            | 39 (1.9)        |   |
| Romania                          | 36 (2.2)        |   |
| Morocco                          | 36 (1.8)        | ▼ |
| Hungary                          | 35 (2.1)        | ▼ |
| Kazakhstan                       | 34 (2.9)        | ▼ |
| Poland                           | 33 (2.2)        | ▼ |
| Malta                            | 30 (2.0)        | ▼ |
| Yemen                            | 30 (2.2)        | ▼ |
| Norway                           | 29 (2.6)        | ▼ |
| Croatia                          | 28 (2.1)        | ▼ |
| Portugal                         | 27 (2.6)        | ▼ |
| Armenia                          | 27 (2.4)        | ▼ |
| Sweden                           | 25 (2.0)        | ▼ |
| Korea, Rep. of                   | 25 (1.7)        | ▼ |
| Tunisia                          | 25 (2.0)        | ▼ |
| Georgia                          | 24 (2.3)        | ▼ |
| Denmark                          | 23 (2.1)        | ▼ |
| Finland                          | 21 (2.0)        | ▼ |
| Turkey                           | 20 (1.4)        | ▼ |
| Serbia                           | 18 (2.0)        | ▼ |
| Japan                            | 14 (1.3)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 41 (2.8)        |   |
| Yemen                            | 41 (2.1)        |   |
| Botswana                         | 25 (2.0)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 56 (2.9)        | ▲ |
| Quebec, Canada                   | 56 (2.5)        | ▲ |
| Ontario, Canada                  | 53 (2.1)        | ▲ |
| North Carolina, US               | 51 (3.2)        | ▲ |
| Alberta, Canada                  | 45 (2.6)        | ▲ |
| Abu Dhabi, UAE                   | 44 (2.1)        | ▲ |
| Dubai, UAE                       | 38 (1.9)        |   |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_06 (S041039): Better way to travel around town  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 83 (1.6)        | ▲ |
| Croatia                          | 78 (1.7)        | ▲ |
| Portugal                         | 75 (2.4)        | ▲ |
| Slovenia                         | 73 (2.3)        | ▲ |
| Finland                          | 70 (1.8)        | ▲ |
| Italy                            | 70 (2.4)        | ▲ |
| Sweden                           | 68 (2.4)        | ▲ |
| Hungary                          | 68 (1.9)        | ▲ |
| Russian Federation               | 67 (2.0)        | ▲ |
| Chinese Taipei                   | 67 (2.1)        | ▲ |
| Spain                            | 64 (2.0)        | ▲ |
| Czech Republic                   | 64 (2.6)        | ▲ |
| Chile                            | 63 (2.2)        | ▲ |
| Serbia                           | 62 (2.5)        | ▲ |
| Germany                          | 62 (1.8)        | ▲ |
| Iran, Islamic Rep. of            | 61 (2.3)        | ▲ |
| Slovak Republic                  | 60 (2.4)        | ▲ |
| Austria                          | 60 (2.2)        | ▲ |
| Singapore                        | 54 (1.9)        | ▲ |
| Poland                           | 54 (2.4)        | ▲ |
| Netherlands                      | 53 (1.9)        | ▲ |
| Belgium (Flemish)                | 53 (2.2)        | ▲ |
| Romania                          | 51 (2.5)        |   |
| Lithuania                        | 50 (2.1)        |   |
| Norway                           | 49 (3.2)        |   |
| <b>International Avg.</b>        | <b>48 (0.3)</b> |   |
| England                          | 47 (2.4)        |   |
| Hong Kong SAR                    | 45 (2.5)        |   |
| Japan                            | 45 (2.4)        |   |
| Denmark                          | 44 (2.4)        |   |
| United States                    | 43 (1.5)        | ▼ |
| Northern Ireland                 | 43 (2.3)        | ▼ |
| New Zealand                      | 42 (1.9)        | ▼ |
| Australia                        | 42 (1.9)        | ▼ |
| Ireland                          | 41 (2.5)        | ▼ |
| Kazakhstan                       | 40 (2.8)        | ▼ |
| Bahrain                          | 39 (2.3)        | ▼ |
| Turkey                           | 38 (1.7)        | ▼ |
| Thailand                         | 36 (2.2)        | ▼ |
| Tunisia                          | 35 (2.8)        | ▼ |
| United Arab Emirates             | 31 (1.4)        | ▼ |
| Malta                            | 30 (1.9)        | ▼ |
| Qatar                            | 29 (2.1)        | ▼ |
| Armenia                          | 29 (2.2)        | ▼ |
| Saudi Arabia                     | 28 (2.7)        | ▼ |
| Georgia                          | 28 (2.1)        | ▼ |
| Morocco                          | 24 (1.7)        | ▼ |
| Kuwait                           | 20 (1.9)        | ▼ |
| Oman                             | 18 (1.2)        | ▼ |
| Azerbaijan                       | 12 (1.5)        | ▼ |
| Yemen                            | 4 (0.7)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 30 (2.4)        | ▼ |
| Yemen                            | 25 (2.2)        | ▼ |
| Botswana                         | 22 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 54 (2.4)        | ▲ |
| Ontario, Canada                  | 51 (2.3)        |   |
| Florida, US                      | 46 (3.0)        |   |
| Quebec, Canada                   | 45 (2.4)        |   |
| Dubai, UAE                       | 40 (2.0)        | ▼ |
| North Carolina, US               | 36 (3.6)        | ▼ |
| Abu Dhabi, UAE                   | 31 (2.6)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_07 (S041014): One function of fruit  
Multiple Choice (Key is A)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Singapore                        | 61 (1.8)        | ▲ |
| Romania                          | 45 (2.9)        | ▲ |
| Korea, Rep. of                   | 44 (2.2)        | ▲ |
| Slovak Republic                  | 41 (2.2)        | ▲ |
| Italy                            | 41 (2.8)        | ▲ |
| United States                    | 41 (1.5)        | ▲ |
| Chinese Taipei                   | 40 (2.3)        | ▲ |
| Azerbaijan                       | 39 (2.6)        | ▲ |
| Slovenia                         | 38 (2.4)        | ▲ |
| Poland                           | 35 (1.8)        | ▲ |
| Russian Federation               | 35 (2.3)        |   |
| Finland                          | 34 (2.2)        |   |
| Spain                            | 34 (2.3)        |   |
| Portugal                         | 34 (3.3)        |   |
| Morocco                          | 34 (2.0)        |   |
| Kazakhstan                       | 33 (2.7)        |   |
| United Arab Emirates             | 33 (1.4)        |   |
| Serbia                           | 33 (2.4)        |   |
| Bahrain                          | 32 (1.5)        |   |
| Ireland                          | 32 (2.4)        |   |
| Hong Kong SAR                    | 32 (2.5)        |   |
| Chile                            | 32 (2.1)        |   |
| Croatia                          | 32 (2.2)        |   |
| Iran, Islamic Rep. of            | 32 (1.9)        |   |
| Czech Republic                   | 32 (2.3)        |   |
| Norway                           | 31 (3.3)        |   |
| Germany                          | 31 (2.2)        |   |
| <b>International Avg.</b>        | <b>31 (0.3)</b> |   |
| Northern Ireland                 | 31 (2.5)        |   |
| Malta                            | 30 (2.0)        |   |
| England                          | 30 (2.6)        |   |
| Denmark                          | 29 (2.0)        |   |
| Saudi Arabia                     | 29 (2.8)        |   |
| Lithuania                        | 28 (1.6)        |   |
| Qatar                            | 28 (2.0)        |   |
| Austria                          | 27 (2.0)        | ▼ |
| Turkey                           | 26 (1.2)        | ▼ |
| Australia                        | 26 (2.3)        | ▼ |
| Japan                            | 26 (1.8)        | ▼ |
| Oman                             | 26 (1.5)        | ▼ |
| Armenia                          | 25 (2.3)        | ▼ |
| Kuwait                           | 25 (2.0)        | ▼ |
| Netherlands                      | 25 (1.9)        | ▼ |
| Hungary                          | 25 (2.0)        | ▼ |
| New Zealand                      | 25 (1.9)        | ▼ |
| Thailand                         | 24 (2.4)        | ▼ |
| Belgium (Flemish)                | 24 (1.9)        | ▼ |
| Sweden                           | 22 (2.1)        | ▼ |
| Georgia                          | 20 (1.9)        | ▼ |
| Tunisia                          | 15 (1.2)        | ▼ |
| Yemen                            | 14 (1.2)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 44 (3.7)        | ▲ |
| Yemen                            | 22 (1.9)        | ▼ |
| Botswana                         | 16 (1.7)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Dubai, UAE                       | 35 (1.9)        | ▲ |
| Florida, US                      | 33 (2.6)        |   |
| Abu Dhabi, UAE                   | 32 (2.2)        |   |
| North Carolina, US               | 32 (2.7)        |   |
| Ontario, Canada                  | 30 (2.4)        |   |
| Alberta, Canada                  | 27 (2.7)        |   |
| Quebec, Canada                   | 22 (2.1)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_08 (S041181): Influenza passing between people  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Sweden                           | 84 (1.9)        | ▲ |
| Lithuania                        | 81 (2.0)        | ▲ |
| Japan                            | 78 (1.8)        | ▲ |
| Slovak Republic                  | 76 (2.0)        | ▲ |
| Northern Ireland                 | 75 (1.8)        | ▲ |
| Russian Federation               | 75 (1.9)        | ▲ |
| Croatia                          | 74 (1.9)        | ▲ |
| Finland                          | 73 (2.4)        | ▲ |
| Czech Republic                   | 73 (2.2)        | ▲ |
| England                          | 73 (2.8)        | ▲ |
| Hungary                          | 73 (1.7)        | ▲ |
| Serbia                           | 72 (2.4)        | ▲ |
| Netherlands                      | 72 (2.0)        | ▲ |
| Belgium (Flemish)                | 70 (1.7)        | ▲ |
| Austria                          | 69 (2.1)        | ▲ |
| Kazakhstan                       | 69 (2.0)        | ▲ |
| Denmark                          | 69 (2.5)        | ▲ |
| New Zealand                      | 68 (1.6)        | ▲ |
| Germany                          | 67 (1.9)        | ▲ |
| Georgia                          | 67 (2.1)        | ▲ |
| Chinese Taipei                   | 67 (2.2)        | ▲ |
| Korea, Rep. of                   | 67 (2.2)        | ▲ |
| Romania                          | 66 (2.2)        | ▲ |
| Thailand                         | 64 (2.6)        | ▲ |
| Spain                            | 60 (2.2)        |   |
| Slovenia                         | 60 (2.2)        |   |
| Norway                           | 60 (2.8)        |   |
| Hong Kong SAR                    | 60 (2.8)        |   |
| Azerbaijan                       | 59 (2.5)        |   |
| <b>International Avg.</b>        | <b>58 (0.3)</b> |   |
| Singapore                        | 58 (1.7)        |   |
| Portugal                         | 57 (3.7)        |   |
| Iran, Islamic Rep. of            | 55 (2.2)        |   |
| Armenia                          | 55 (2.3)        |   |
| Chile                            | 54 (2.1)        | ▼ |
| United States                    | 54 (1.5)        | ▼ |
| Turkey                           | 54 (1.9)        | ▼ |
| Ireland                          | 52 (2.4)        | ▼ |
| Poland                           | 51 (2.2)        | ▼ |
| Bahrain                          | 48 (3.1)        | ▼ |
| Australia                        | 47 (2.2)        | ▼ |
| Saudi Arabia                     | 40 (3.2)        | ▼ |
| Italy                            | 39 (2.2)        | ▼ |
| United Arab Emirates             | 38 (1.2)        | ▼ |
| Qatar                            | 38 (2.9)        | ▼ |
| Malta                            | 35 (2.4)        | ▼ |
| Oman                             | 33 (1.6)        | ▼ |
| Tunisia                          | 32 (2.4)        | ▼ |
| Morocco                          | 30 (1.8)        | ▼ |
| Kuwait                           | 26 (2.1)        | ▼ |
| Yemen                            | 5 (0.9)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 72 (2.3)        | ▲ |
| Yemen                            | 51 (2.5)        | ▼ |
| Botswana                         | 41 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Quebec, Canada                   | 72 (2.0)        | ▲ |
| Alberta, Canada                  | 53 (2.4)        | ▼ |
| Florida, US                      | 52 (2.7)        | ▼ |
| Ontario, Canada                  | 48 (2.3)        | ▼ |
| North Carolina, US               | 48 (3.2)        | ▼ |
| Dubai, UAE                       | 40 (1.8)        | ▼ |
| Abu Dhabi, UAE                   | 34 (2.2)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_09 (S041174): Migration of birds  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Austria                          | 81 (1.5) ▲      |
| Croatia                          | 73 (2.1) ▲      |
| Finland                          | 72 (2.6) ▲      |
| Slovak Republic                  | 70 (2.6) ▲      |
| Singapore                        | 70 (1.7) ▲      |
| Russian Federation               | 67 (2.5) ▲      |
| Sweden                           | 64 (2.6) ▲      |
| Czech Republic                   | 63 (2.4) ▲      |
| Slovenia                         | 56 (2.6) ▲      |
| Hungary                          | 55 (2.0) ▲      |
| Italy                            | 52 (2.7) ▲      |
| Kazakhstan                       | 51 (2.4) ▲      |
| Serbia                           | 47 (2.6) ▲      |
| United States                    | 47 (1.5) ▲      |
| Portugal                         | 47 (3.1) ▲      |
| Romania                          | 46 (2.6) ▲      |
| Turkey                           | 45 (1.7) ▲      |
| Denmark                          | 45 (2.5) ▲      |
| Lithuania                        | 45 (2.2) ▲      |
| Armenia                          | 41 (2.0)        |
| Korea, Rep. of                   | 40 (2.0)        |
| Japan                            | 38 (2.3)        |
| <b>International Avg.</b>        | <b>37 (0.3)</b> |
| Poland                           | 36 (2.1)        |
| Northern Ireland                 | 35 (2.8)        |
| Bahrain                          | 35 (2.4)        |
| Iran, Islamic Rep. of            | 35 (2.0)        |
| Azerbaijan                       | 33 (2.1) ▼      |
| Georgia                          | 33 (2.4)        |
| Saudi Arabia                     | 33 (2.7)        |
| Ireland                          | 31 (2.4) ▼      |
| Norway                           | 31 (2.4) ▼      |
| Chinese Taipei                   | 27 (2.1) ▼      |
| Thailand                         | 27 (2.3) ▼      |
| Germany                          | 24 (1.8) ▼      |
| Netherlands                      | 24 (2.7) ▼      |
| New Zealand                      | 23 (2.0) ▼      |
| Oman                             | 19 (1.5) ▼      |
| England                          | 19 (2.0) ▼      |
| Chile                            | 19 (1.6) ▼      |
| Belgium (Flemish)                | 19 (1.8) ▼      |
| United Arab Emirates             | 19 (1.0) ▼      |
| Australia                        | 19 (1.6) ▼      |
| Spain                            | 18 (1.6) ▼      |
| Qatar                            | 18 (1.8) ▼      |
| Morocco                          | 17 (1.5) ▼      |
| Tunisia                          | 16 (1.8) ▼      |
| Kuwait                           | 12 (1.5) ▼      |
| Hong Kong SAR                    | 9 (1.2) ▼       |
| Malta                            | 8 (1.1) ▼       |
| Yemen                            | 3 (0.7) ▼       |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 16 (1.6) ▼      |
| Yemen                            | 12 (2.1) ▼      |
| Botswana                         | 2 (0.9) ▼       |
| <b>Benchmarking Participants</b> |                 |
| North Carolina, US               | 43 (2.9) ▲      |
| Ontario, Canada                  | 42 (2.1) ▲      |
| Florida, US                      | 42 (3.2)        |
| Alberta, Canada                  | 40 (2.1)        |
| Quebec, Canada                   | 37 (2.8)        |
| Dubai, UAE                       | 19 (1.5) ▼      |
| Abu Dhabi, UAE                   | 15 (1.9) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_10 (S041049): Properties of two materials  
Multiple Choice (Key is C)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Chinese Taipei                   | 81 (1.9) ▲      |
| Singapore                        | 78 (1.6) ▲      |
| Japan                            | 74 (2.1) ▲      |
| Korea, Rep. of                   | 69 (1.8) ▲      |
| Russian Federation               | 67 (2.1) ▲      |
| Finland                          | 66 (2.6) ▲      |
| Hong Kong SAR                    | 66 (2.0) ▲      |
| Netherlands                      | 62 (2.1) ▲      |
| Portugal                         | 60 (2.7) ▲      |
| Croatia                          | 59 (2.0) ▲      |
| Slovak Republic                  | 59 (2.3) ▲      |
| Hungary                          | 58 (2.2) ▲      |
| Serbia                           | 58 (2.7) ▲      |
| Turkey                           | 53 (1.9) ▲      |
| Czech Republic                   | 51 (2.9)        |
| Slovenia                         | 51 (2.6)        |
| Kazakhstan                       | 50 (2.6)        |
| Sweden                           | 50 (2.2)        |
| United States                    | 50 (1.5)        |
| Germany                          | 50 (2.4)        |
| Austria                          | 50 (2.3)        |
| Belgium (Flemish)                | 49 (2.0)        |
| Poland                           | 49 (1.9)        |
| Lithuania                        | 49 (2.7)        |
| Italy                            | 48 (2.3)        |
| <b>International Avg.</b>        | <b>47 (0.3)</b> |
| England                          | 47 (2.7)        |
| Romania                          | 46 (3.1)        |
| Denmark                          | 46 (2.3)        |
| Spain                            | 44 (2.9)        |
| Australia                        | 43 (2.0) ▼      |
| Azerbaijan                       | 42 (2.2) ▼      |
| Iran, Islamic Rep. of            | 41 (2.2) ▼      |
| New Zealand                      | 40 (1.9) ▼      |
| Ireland                          | 40 (2.3) ▼      |
| Saudi Arabia                     | 39 (2.6) ▼      |
| Northern Ireland                 | 39 (2.6) ▼      |
| United Arab Emirates             | 37 (1.2) ▼      |
| Chile                            | 37 (2.1) ▼      |
| Bahrain                          | 37 (2.4) ▼      |
| Thailand                         | 36 (2.6) ▼      |
| Norway                           | 36 (2.9) ▼      |
| Qatar                            | 34 (2.2) ▼      |
| Malta                            | 33 (2.1) ▼      |
| Oman                             | 32 (1.6) ▼      |
| Kuwait                           | 32 (2.0) ▼      |
| Georgia                          | 30 (2.5) ▼      |
| Armenia                          | 29 (2.1) ▼      |
| Tunisia                          | 26 (2.3) ▼      |
| Yemen                            | 25 (1.8) ▼      |
| Morocco                          | 24 (2.4) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 38 (2.0) ▼      |
| Yemen                            | 32 (2.0) ▼      |
| Botswana                         | 20 (1.9) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Florida, US                      | 51 (2.6)        |
| North Carolina, US               | 46 (2.9)        |
| Ontario, Canada                  | 44 (2.1)        |
| Alberta, Canada                  | 44 (2.1)        |
| Dubai, UAE                       | 44 (1.9) ▼      |
| Quebec, Canada                   | 42 (2.9)        |
| Abu Dhabi, UAE                   | 35 (2.3) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_11 (S041208): How often Earth rotates on axis  
Multiple Choice (Key is B)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Slovak Republic                  | 70 (1.7) ▲      |
| Portugal                         | 69 (2.2) ▲      |
| Bahrain                          | 69 (2.6) ▲      |
| Slovenia                         | 67 (2.3) ▲      |
| Lithuania                        | 67 (2.2) ▲      |
| Spain                            | 66 (2.0) ▲      |
| Turkey                           | 65 (1.7) ▲      |
| Saudi Arabia                     | 65 (2.4) ▲      |
| Georgia                          | 64 (2.3) ▲      |
| Kazakhstan                       | 63 (2.4) ▲      |
| Iran, Islamic Rep. of            | 63 (2.5) ▲      |
| Azerbaijan                       | 59 (2.3) ▲      |
| Romania                          | 59 (2.7) ▲      |
| Qatar                            | 59 (2.6) ▲      |
| United Arab Emirates             | 59 (1.5) ▲      |
| Japan                            | 58 (2.5) ▲      |
| Chile                            | 58 (2.2) ▲      |
| Austria                          | 57 (2.0) ▲      |
| Russian Federation               | 57 (2.2)        |
| Hungary                          | 55 (2.3)        |
| Germany                          | 54 (2.2)        |
| Thailand                         | 54 (2.5)        |
| Italy                            | 53 (2.1)        |
| <b>International Avg.</b>        | <b>53 (0.3)</b> |
| Oman                             | 53 (1.7)        |
| Belgium (Flemish)                | 53 (2.3)        |
| United States                    | 52 (1.5)        |
| Netherlands                      | 52 (2.5)        |
| Korea, Rep. of                   | 52 (2.0)        |
| Czech Republic                   | 51 (2.6)        |
| Serbia                           | 51 (2.4)        |
| Croatia                          | 50 (2.5)        |
| Poland                           | 49 (2.0)        |
| England                          | 49 (2.3)        |
| Denmark                          | 48 (2.5) ▼      |
| Norway                           | 47 (2.9) ▼      |
| Chinese Taipei                   | 47 (2.1) ▼      |
| Hong Kong SAR                    | 46 (2.0) ▼      |
| Finland                          | 45 (2.3) ▼      |
| Singapore                        | 45 (1.9) ▼      |
| New Zealand                      | 44 (2.5) ▼      |
| Australia                        | 44 (2.4) ▼      |
| Armenia                          | 44 (2.4) ▼      |
| Malta                            | 43 (2.1) ▼      |
| Sweden                           | 42 (2.2) ▼      |
| Ireland                          | 42 (2.5) ▼      |
| Northern Ireland                 | 42 (2.5) ▼      |
| Morocco                          | 39 (2.3) ▼      |
| Kuwait                           | 37 (2.6) ▼      |
| Yemen                            | 37 (1.8) ▼      |
| Tunisia                          | 36 (2.1) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 49 (2.8)        |
| Yemen                            | 43 (2.1) ▼      |
| Botswana                         | 43 (2.0) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Dubai, UAE                       | 59 (2.8) ▲      |
| Abu Dhabi, UAE                   | 57 (2.4)        |
| Florida, US                      | 55 (2.9)        |
| Quebec, Canada                   | 51 (2.8)        |
| North Carolina, US               | 46 (2.8) ▼      |
| Alberta, Canada                  | 44 (2.8) ▼      |
| Ontario, Canada                  | 41 (1.9) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_12 (S041060): Identifies gas  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Russian Federation               | 41 (2.5)        | ▲ |
| Finland                          | 37 (2.2)        | ▲ |
| Italy                            | 33 (2.3)        | ▲ |
| Singapore                        | 30 (2.2)        | ▲ |
| England                          | 30 (2.9)        | ▲ |
| United States                    | 29 (1.3)        | ▲ |
| Korea, Rep. of                   | 28 (1.8)        | ▲ |
| Romania                          | 26 (2.4)        | ▲ |
| Northern Ireland                 | 26 (2.1)        | ▲ |
| Australia                        | 24 (1.5)        | ▲ |
| Austria                          | 24 (2.0)        | ▲ |
| Sweden                           | 24 (2.2)        | ▲ |
| Kazakhstan                       | 24 (2.4)        | ▲ |
| Chinese Taipei                   | 22 (2.0)        | ▲ |
| Netherlands                      | 22 (2.2)        | ▲ |
| Turkey                           | 21 (1.5)        | ▲ |
| Portugal                         | 21 (2.3)        |   |
| Czech Republic                   | 21 (2.0)        |   |
| Hungary                          | 21 (1.9)        |   |
| Slovenia                         | 20 (2.1)        |   |
| New Zealand                      | 20 (1.6)        |   |
| Ireland                          | 19 (2.2)        |   |
| Poland                           | 18 (1.8)        |   |
| <b>International Avg.</b>        | <b>18 (0.3)</b> |   |
| Hong Kong SAR                    | 18 (2.0)        |   |
| Denmark                          | 17 (1.6)        |   |
| Serbia                           | 16 (2.1)        |   |
| Spain                            | 16 (1.4)        |   |
| Chile                            | 16 (1.4)        |   |
| Japan                            | 16 (1.4)        |   |
| Germany                          | 16 (1.7)        |   |
| Slovak Republic                  | 15 (1.7)        | ▼ |
| United Arab Emirates             | 14 (0.9)        | ▼ |
| Oman                             | 14 (1.5)        | ▼ |
| Iran, Islamic Rep. of            | 14 (1.3)        | ▼ |
| Malta                            | 14 (1.4)        | ▼ |
| Croatia                          | 13 (1.3)        | ▼ |
| Belgium (Flemish)                | 13 (1.5)        | ▼ |
| Norway                           | 11 (1.6)        | ▼ |
| Qatar                            | 11 (1.1)        | ▼ |
| Bahrain                          | 10 (1.7)        | ▼ |
| Morocco                          | 10 (1.2)        | ▼ |
| Azerbaijan                       | 9 (1.5)         | ▼ |
| Thailand                         | 7 (1.4)         | ▼ |
| Armenia                          | 6 (1.1)         | ▼ |
| Saudi Arabia                     | 6 (1.4)         | ▼ |
| Tunisia                          | 6 (1.3)         | ▼ |
| Kuwait                           | 5 (0.8)         | ▼ |
| Georgia                          | 4 (1.2)         | ▼ |
| Yemen                            | 0 (0.2)         | ▼ |
| Lithuania                        | - -             |   |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 8 (1.5)         | ▼ |
| Yemen                            | 5 (0.9)         | ▼ |
| Botswana                         | 3 (0.7)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 29 (2.2)        | ▲ |
| North Carolina, US               | 21 (2.6)        |   |
| Dubai, UAE                       | 20 (1.1)        | ▲ |
| Alberta, Canada                  | 19 (2.0)        |   |
| Ontario, Canada                  | 17 (1.6)        |   |
| Quebec, Canada                   | 16 (2.0)        |   |
| Abu Dhabi, UAE                   | 11 (1.7)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_13A (S041201A): Advantage to farming by a river  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 83 (1.6)        | ▲ |
| Finland                          | 70 (2.3)        | ▲ |
| Singapore                        | 62 (2.0)        | ▲ |
| Portugal                         | 61 (3.0)        | ▲ |
| Chinese Taipei                   | 61 (2.3)        | ▲ |
| Czech Republic                   | 59 (3.0)        | ▲ |
| Italy                            | 57 (2.1)        | ▲ |
| Thailand                         | 57 (2.5)        | ▲ |
| Germany                          | 55 (2.2)        | ▲ |
| Russian Federation               | 54 (2.6)        | ▲ |
| Hong Kong SAR                    | 54 (2.4)        | ▲ |
| Austria                          | 54 (2.5)        | ▲ |
| Romania                          | 53 (3.0)        | ▲ |
| Sweden                           | 53 (2.1)        | ▲ |
| England                          | 52 (2.7)        | ▲ |
| Northern Ireland                 | 52 (2.5)        | ▲ |
| Denmark                          | 51 (2.6)        | ▲ |
| Netherlands                      | 51 (2.4)        | ▲ |
| Ireland                          | 51 (2.3)        | ▲ |
| Lithuania                        | 50 (1.8)        | ▲ |
| United States                    | 49 (1.4)        | ▲ |
| Iran, Islamic Rep. of            | 48 (2.2)        | ▲ |
| Belgium (Flemish)                | 44 (2.3)        |   |
| Poland                           | 44 (2.5)        |   |
| Australia                        | 44 (2.0)        |   |
| Croatia                          | 43 (2.1)        |   |
| Kazakhstan                       | 43 (2.9)        |   |
| <b>International Avg.</b>        | <b>42 (0.3)</b> |   |
| Norway                           | 41 (2.9)        |   |
| Slovenia                         | 39 (2.7)        |   |
| Slovak Republic                  | 38 (2.2)        |   |
| New Zealand                      | 38 (2.0)        | ▼ |
| Serbia                           | 38 (2.4)        |   |
| Hungary                          | 37 (2.2)        | ▼ |
| Turkey                           | 36 (1.8)        | ▼ |
| Spain                            | 35 (2.2)        | ▼ |
| Chile                            | 35 (2.0)        | ▼ |
| Georgia                          | 35 (2.4)        | ▼ |
| Japan                            | 33 (2.3)        | ▼ |
| Bahrain                          | 29 (2.1)        | ▼ |
| Azerbaijan                       | 28 (2.3)        | ▼ |
| United Arab Emirates             | 27 (1.1)        | ▼ |
| Malta                            | 26 (1.9)        | ▼ |
| Saudi Arabia                     | 25 (2.6)        | ▼ |
| Qatar                            | 23 (2.3)        | ▼ |
| Armenia                          | 22 (1.8)        | ▼ |
| Tunisia                          | 16 (1.9)        | ▼ |
| Kuwait                           | 13 (1.4)        | ▼ |
| Oman                             | 13 (1.3)        | ▼ |
| Morocco                          | 13 (1.4)        | ▼ |
| Yemen                            | 3 (0.8)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 40 (2.4)        |   |
| Yemen                            | 16 (2.3)        | ▼ |
| Botswana                         | 14 (1.8)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 59 (3.0)        | ▲ |
| Ontario, Canada                  | 54 (2.4)        | ▲ |
| Quebec, Canada                   | 43 (2.6)        |   |
| Florida, US                      | 38 (2.7)        |   |
| Dubai, UAE                       | 37 (1.8)        | ▼ |
| North Carolina, US               | 35 (3.0)        | ▼ |
| Abu Dhabi, UAE                   | 19 (1.8)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S03\_13B (S041201B): Disadvantage to farming by a river  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 64 (1.6)        | ▲ |
| Czech Republic                   | 60 (2.4)        | ▲ |
| Italy                            | 55 (2.2)        | ▲ |
| Finland                          | 55 (2.5)        | ▲ |
| Slovak Republic                  | 55 (2.3)        | ▲ |
| Romania                          | 53 (2.9)        | ▲ |
| Thailand                         | 52 (2.2)        | ▲ |
| Chinese Taipei                   | 52 (2.1)        | ▲ |
| Netherlands                      | 52 (2.4)        | ▲ |
| Slovenia                         | 51 (2.3)        | ▲ |
| Singapore                        | 49 (2.1)        | ▲ |
| Austria                          | 47 (2.8)        | ▲ |
| Ireland                          | 46 (2.3)        | ▲ |
| Germany                          | 46 (2.3)        | ▲ |
| Hong Kong SAR                    | 45 (2.5)        | ▲ |
| Denmark                          | 44 (2.4)        | ▲ |
| Poland                           | 44 (1.9)        | ▲ |
| Portugal                         | 44 (3.2)        | ▲ |
| Hungary                          | 43 (2.2)        | ▲ |
| Northern Ireland                 | 43 (2.5)        | ▲ |
| England                          | 43 (2.5)        | ▲ |
| Russian Federation               | 42 (2.3)        | ▲ |
| Belgium (Flemish)                | 39 (2.3)        | ▲ |
| New Zealand                      | 38 (2.3)        |   |
| Australia                        | 36 (2.0)        |   |
| United States                    | 35 (1.6)        |   |
| Lithuania                        | 34 (2.2)        |   |
| <b>International Avg.</b>        | <b>34 (0.3)</b> |   |
| Sweden                           | 33 (2.6)        |   |
| Turkey                           | 32 (1.6)        |   |
| Georgia                          | 29 (2.3)        |   |
| Japan                            | 26 (1.8)        | ▼ |
| Kazakhstan                       | 25 (2.5)        | ▼ |
| Azerbaijan                       | 25 (2.4)        | ▼ |
| Norway                           | 25 (2.7)        | ▼ |
| Spain                            | 24 (1.8)        | ▼ |
| Serbia                           | 24 (2.2)        | ▼ |
| Chile                            | 23 (1.7)        | ▼ |
| Croatia                          | 22 (1.8)        | ▼ |
| Iran, Islamic Rep. of            | 22 (1.7)        | ▼ |
| Malta                            | 16 (1.6)        | ▼ |
| Bahrain                          | 15 (1.9)        | ▼ |
| Armenia                          | 15 (1.9)        | ▼ |
| United Arab Emirates             | 14 (0.9)        | ▼ |
| Qatar                            | 13 (1.6)        | ▼ |
| Saudi Arabia                     | 11 (1.4)        | ▼ |
| Oman                             | 7 (1.1)         | ▼ |
| Tunisia                          | 7 (1.1)         | ▼ |
| Morocco                          | 6 (0.8)         | ▼ |
| Kuwait                           | 5 (1.1)         | ▼ |
| Yemen                            | 1 (0.2)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 38 (2.8)        |   |
| Yemen                            | 28 (2.4)        | ▼ |
| Botswana                         | 7 (1.2)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 42 (1.8)        | ▲ |
| Ontario, Canada                  | 36 (2.3)        |   |
| Quebec, Canada                   | 35 (2.5)        |   |
| North Carolina, US               | 25 (2.9)        | ▼ |
| Florida, US                      | 24 (2.6)        | ▼ |
| Dubai, UAE                       | 21 (1.6)        | ▼ |
| Abu Dhabi, UAE                   | 9 (1.3)         | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_01 (S031340): Best source of calcium  
Multiple Choice (Key is C)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Finland                          | 83 (1.8)        | ▲ |
| Singapore                        | 77 (1.6)        | ▲ |
| Thailand                         | 71 (2.4)        | ▲ |
| Japan                            | 70 (2.1)        | ▲ |
| Ireland                          | 70 (2.3)        | ▲ |
| Portugal                         | 65 (2.5)        | ▲ |
| Turkey                           | 65 (2.2)        | ▲ |
| Spain                            | 65 (1.9)        | ▲ |
| Northern Ireland                 | 64 (2.7)        | ▲ |
| Romania                          | 63 (2.8)        | ▲ |
| Denmark                          | 62 (2.4)        | ▲ |
| Italy                            | 62 (2.4)        | ▲ |
| Czech Republic                   | 60 (2.6)        | ▲ |
| Chile                            | 58 (1.8)        | ▲ |
| Slovak Republic                  | 58 (1.9)        | ▲ |
| Hong Kong SAR                    | 55 (2.4)        | ▲ |
| England                          | 55 (2.7)        | ▲ |
| Chinese Taipei                   | 53 (2.0)        | ▲ |
| Australia                        | 53 (2.3)        | ▲ |
| Korea, Rep. of                   | 53 (2.0)        | ▲ |
| Azerbaijan                       | 52 (2.4)        | ▲ |
| New Zealand                      | 51 (2.5)        |   |
| <b>International Avg.</b>        | <b>47 (0.3)</b> |   |
| United States                    | 47 (1.5)        |   |
| Belgium (Flemish)                | 46 (2.2)        |   |
| Netherlands                      | 45 (2.5)        |   |
| Hungary                          | 44 (2.0)        |   |
| Poland                           | 44 (2.3)        |   |
| Lithuania                        | 42 (2.0)        | ▼ |
| Saudi Arabia                     | 41 (2.4)        | ▼ |
| Malta                            | 39 (1.7)        | ▼ |
| Serbia                           | 37 (2.1)        | ▼ |
| Bahrain                          | 37 (2.1)        | ▼ |
| Oman                             | 36 (1.5)        | ▼ |
| Armenia                          | 36 (1.9)        | ▼ |
| Georgia                          | 35 (2.5)        | ▼ |
| Qatar                            | 35 (2.2)        | ▼ |
| Sweden                           | 34 (2.4)        | ▼ |
| Tunisia                          | 34 (2.5)        | ▼ |
| Russian Federation               | 34 (2.2)        | ▼ |
| Kuwait                           | 34 (1.9)        | ▼ |
| United Arab Emirates             | 31 (1.2)        | ▼ |
| Kazakhstan                       | 30 (2.9)        | ▼ |
| Croatia                          | 29 (2.1)        | ▼ |
| Morocco                          | 29 (2.1)        | ▼ |
| Norway                           | 29 (2.8)        | ▼ |
| Yemen                            | 28 (1.8)        | ▼ |
| Iran, Islamic Rep. of            | 27 (1.7)        | ▼ |
| Austria                          | 27 (2.1)        | ▼ |
| Germany                          | 25 (2.1)        | ▼ |
| Slovenia                         | 23 (1.6)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 33 (2.0)        | ▼ |
| Yemen                            | 32 (2.3)        | ▼ |
| Botswana                         | 32 (2.7)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Ontario, Canada                  | 69 (2.1)        | ▲ |
| Quebec, Canada                   | 66 (2.5)        | ▲ |
| Alberta, Canada                  | 60 (2.3)        | ▲ |
| North Carolina, US               | 52 (3.0)        |   |
| Florida, US                      | 43 (2.8)        |   |
| Dubai, UAE                       | 39 (1.5)        | ▼ |
| Abu Dhabi, UAE                   | 31 (2.3)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_02 (S031236): Bird's foot structure  
Multiple Choice (Key is D)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Netherlands                      | 92 (1.1) ▲      |
| Slovak Republic                  | 91 (1.2) ▲      |
| Hungary                          | 89 (1.2) ▲      |
| Czech Republic                   | 89 (1.3) ▲      |
| Norway                           | 89 (1.8) ▲      |
| Denmark                          | 87 (1.5) ▲      |
| Germany                          | 87 (1.7) ▲      |
| Russian Federation               | 86 (1.8) ▲      |
| Northern Ireland                 | 86 (2.0) ▲      |
| Poland                           | 86 (1.6) ▲      |
| Belgium (Flemish)                | 86 (1.5) ▲      |
| Lithuania                        | 86 (1.5) ▲      |
| Austria                          | 86 (1.9) ▲      |
| Australia                        | 85 (1.5) ▲      |
| New Zealand                      | 84 (1.3) ▲      |
| United States                    | 84 (1.2) ▲      |
| Sweden                           | 83 (2.0) ▲      |
| England                          | 83 (2.2) ▲      |
| Slovenia                         | 82 (1.9) ▲      |
| Romania                          | 82 (1.6) ▲      |
| Korea, Rep. of                   | 81 (1.6) ▲      |
| Finland                          | 81 (1.7) ▲      |
| Italy                            | 81 (1.7) ▲      |
| Ireland                          | 80 (1.7) ▲      |
| Chinese Taipei                   | 80 (1.6) ▲      |
| Portugal                         | 79 (2.2) ▲      |
| Chile                            | 76 (1.7) ▲      |
| Croatia                          | 75 (2.0) ▲      |
| Singapore                        | 75 (1.8) ▲      |
| Armenia                          | 73 (2.2) ▲      |
| Azerbaijan                       | 72 (2.3) ▲      |
| <b>International Avg.</b>        | <b>72 (0.3)</b> |
| Japan                            | 71 (1.8) ▲      |
| Serbia                           | 69 (2.3) ▲      |
| Iran, Islamic Rep. of            | 69 (1.8) ▲      |
| Tunisia                          | 69 (2.8) ▲      |
| Spain                            | 66 (2.0) ▼      |
| Malta                            | 59 (1.9) ▼      |
| Georgia                          | 57 (2.5) ▼      |
| Saudi Arabia                     | 56 (2.6) ▼      |
| United Arab Emirates             | 55 (1.3) ▼      |
| Thailand                         | 55 (2.8) ▼      |
| Oman                             | 54 (1.7) ▼      |
| Hong Kong SAR                    | 50 (2.9) ▼      |
| Kazakhstan                       | 48 (3.0) ▼      |
| Qatar                            | 46 (2.5) ▼      |
| Turkey                           | 44 (1.7) ▼      |
| Bahrain                          | 43 (2.5) ▼      |
| Kuwait                           | 41 (2.1) ▼      |
| Morocco                          | 33 (2.7) ▼      |
| Yemen                            | 16 (1.8) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 75 (2.4) ▲      |
| Yemen                            | 40 (2.2) ▼      |
| Botswana                         | 23 (2.0) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Alberta, Canada                  | 85 (1.9) ▲      |
| North Carolina, US               | 84 (2.1) ▲      |
| Ontario, Canada                  | 82 (1.5) ▲      |
| Florida, US                      | 78 (2.0) ▲      |
| Quebec, Canada                   | 69 (2.5) ▲      |
| Dubai, UAE                       | 65 (1.8) ▼      |
| Abu Dhabi, UAE                   | 53 (2.4) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_03A (S031391A): Ways to avoid wasting water  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Chinese Taipei                   | 91 (1.2) ▲      |
| Portugal                         | 82 (2.7) ▲      |
| Korea, Rep. of                   | 79 (1.6) ▲      |
| Singapore                        | 78 (1.5) ▲      |
| Ireland                          | 69 (2.6) ▲      |
| Australia                        | 69 (1.9) ▲      |
| Japan                            | 69 (2.1) ▲      |
| Spain                            | 68 (2.3) ▲      |
| Italy                            | 67 (2.3) ▲      |
| Hungary                          | 64 (2.2) ▲      |
| Chile                            | 63 (2.2) ▲      |
| United States                    | 63 (1.4) ▲      |
| Hong Kong SAR                    | 59 (2.3) ▲      |
| Northern Ireland                 | 58 (2.5) ▲      |
| England                          | 58 (2.7) ▲      |
| Croatia                          | 57 (2.2) ▲      |
| Belgium (Flemish)                | 55 (2.2) ▲      |
| Finland                          | 54 (2.4) ▲      |
| Netherlands                      | 53 (2.5) ▲      |
| Austria                          | 53 (2.2) ▲      |
| Slovak Republic                  | 52 (2.2)        |
| Poland                           | 51 (2.6)        |
| Sweden                           | 51 (2.6)        |
| Serbia                           | 51 (2.5)        |
| Iran, Islamic Rep. of            | 50 (2.2)        |
| Denmark                          | 49 (2.7)        |
| <b>International Avg.</b>        | <b>48 (0.3)</b> |
| Germany                          | 48 (2.0)        |
| Bahrain                          | 47 (2.7)        |
| Turkey                           | 45 (2.3)        |
| Norway                           | 44 (3.2)        |
| Kazakhstan                       | 43 (2.9)        |
| Malta                            | 42 (2.0) ▼      |
| Czech Republic                   | 42 (2.7) ▼      |
| Romania                          | 40 (2.4) ▼      |
| New Zealand                      | 39 (2.3) ▼      |
| Slovenia                         | 37 (2.6) ▼      |
| Saudi Arabia                     | 37 (2.3) ▼      |
| Russian Federation               | 36 (2.4) ▼      |
| United Arab Emirates             | 33 (1.0) ▼      |
| Oman                             | 32 (2.0) ▼      |
| Thailand                         | 31 (2.3) ▼      |
| Lithuania                        | 31 (2.0) ▼      |
| Qatar                            | 26 (2.2) ▼      |
| Tunisia                          | 26 (1.7) ▼      |
| Azerbaijan                       | 24 (2.3) ▼      |
| Kuwait                           | 22 (1.7) ▼      |
| Armenia                          | 20 (2.0) ▼      |
| Georgia                          | 17 (2.0) ▼      |
| Morocco                          | 7 (0.9) ▼       |
| Yemen                            | 3 (0.7) ▼       |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 52 (3.0)        |
| Yemen                            | 43 (2.2) ▼      |
| Botswana                         | 24 (1.9) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 70 (1.9) ▲      |
| Alberta, Canada                  | 68 (2.5) ▲      |
| Florida, US                      | 65 (2.4) ▲      |
| North Carolina, US               | 64 (2.6) ▲      |
| Ontario, Canada                  | 56 (2.7) ▲      |
| Dubai, UAE                       | 47 (2.0)        |
| Abu Dhabi, UAE                   | 27 (2.2) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_03B (S031391B): Ways to avoid wasting water  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 82 (1.4)        | ▲ |
| Singapore                        | 58 (2.1)        | ▲ |
| Chinese Taipei                   | 56 (1.9)        | ▲ |
| Portugal                         | 55 (2.9)        | ▲ |
| United States                    | 52 (1.6)        | ▲ |
| Hungary                          | 51 (2.2)        | ▲ |
| Australia                        | 48 (2.6)        | ▲ |
| Belgium (Flemish)                | 48 (2.7)        | ▲ |
| Hong Kong SAR                    | 48 (2.0)        | ▲ |
| Ireland                          | 47 (2.8)        | ▲ |
| Spain                            | 46 (2.5)        | ▲ |
| Netherlands                      | 46 (2.7)        | ▲ |
| Iran, Islamic Rep. of            | 44 (2.2)        | ▲ |
| Poland                           | 43 (2.6)        | ▲ |
| England                          | 41 (2.6)        | ▲ |
| Italy                            | 40 (2.3)        | ▲ |
| Bahrain                          | 40 (2.7)        |   |
| Sweden                           | 39 (2.4)        |   |
| Germany                          | 39 (2.1)        |   |
| Finland                          | 39 (2.7)        |   |
| Croatia                          | 38 (2.2)        |   |
| Austria                          | 38 (2.4)        |   |
| Japan                            | 38 (2.1)        |   |
| Northern Ireland                 | 37 (2.4)        |   |
| Denmark                          | 37 (2.5)        |   |
| Slovak Republic                  | 36 (2.1)        |   |
| Kazakhstan                       | 36 (2.3)        |   |
| New Zealand                      | 36 (2.0)        |   |
| International Avg.               | 35 (0.3)        |   |
| Chile                            | 34 (2.3)        |   |
| Turkey                           | 34 (1.7)        |   |
| Norway                           | 34 (2.4)        |   |
| Malta                            | 32 (2.0)        |   |
| Saudi Arabia                     | 32 (2.2)        |   |
| Czech Republic                   | 29 (2.5)        | ▼ |
| Russian Federation               | 28 (1.8)        | ▼ |
| Slovenia                         | 26 (2.3)        | ▼ |
| Romania                          | 26 (2.2)        | ▼ |
| Serbia                           | 26 (1.8)        | ▼ |
| Thailand                         | 25 (2.4)        | ▼ |
| United Arab Emirates             | 24 (1.2)        | ▼ |
| Qatar                            | 21 (2.5)        | ▼ |
| Lithuania                        | 21 (1.8)        | ▼ |
| Kuwait                           | 21 (1.7)        | ▼ |
| Oman                             | 19 (1.5)        | ▼ |
| Tunisia                          | 18 (2.0)        | ▼ |
| Azerbaijan                       | 13 (1.7)        | ▼ |
| Armenia                          | 12 (1.6)        | ▼ |
| Georgia                          | 7 (1.1)         | ▼ |
| Morocco                          | 5 (0.7)         | ▼ |
| Yemen                            | 2 (0.5)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 31 (2.0)        | ▼ |
| Yemen                            | 30 (2.6)        | ▼ |
| Botswana                         | 15 (1.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 54 (2.4)        | ▲ |
| Alberta, Canada                  | 52 (2.8)        | ▲ |
| Quebec, Canada                   | 51 (2.4)        | ▲ |
| North Carolina, US               | 51 (3.2)        | ▲ |
| Ontario, Canada                  | 42 (2.1)        | ▲ |
| Dubai, UAE                       | 35 (2.0)        |   |
| Abu Dhabi, UAE                   | 20 (2.4)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_03Z (S031391Z): Ways to avoid wasting water-DERIVED  
Constructed Response (2 Points)

| Country                          | Percent Full Credit | Percent at Least 1 Point |
|----------------------------------|---------------------|--------------------------|
| Korea, Rep. of                   | 70 (2.0) ●          | 91 (1.1) ●               |
| Singapore                        | 52 (2.1) ▲          | 84 (1.4) ●               |
| Chinese Taipei                   | 51 (1.9) ▲          | 96 (0.8) ●               |
| Portugal                         | 50 (3.2) ●          | 87 (1.9) ●               |
| Australia                        | 42 (2.2) ●          | 75 (2.1) ●               |
| United States                    | 41 (1.6) ●          | 73 (1.3) ●               |
| Ireland                          | 41 (2.7) ▲          | 76 (2.1) ●               |
| Hungary                          | 41 (2.2) ▲          | 74 (2.1) ▲               |
| Spain                            | 41 (2.4) ●          | 74 (2.2) ●               |
| Belgium (Flemish)                | 36 (2.4) ▲          | 67 (2.3) ▲               |
| Netherlands                      | 35 (2.3) ●          | 64 (2.5) ●               |
| Bahrain                          | 34 (2.8) ▲          | 52 (2.6)                 |
| Iran, Islamic Rep. of            | 33 (2.0) ●          | 61 (2.1) ●               |
| Poland                           | 33 (2.7) ●          | 62 (2.5) ●               |
| Italy                            | 33 (2.2) ●          | 74 (2.1) ●               |
| Hong Kong SAR                    | 33 (2.1) ●          | 74 (2.0) ●               |
| Germany                          | 32 (2.1) ●          | 55 (1.8)                 |
| Northern Ireland                 | 31 (2.4)            | 64 (2.5) ●               |
| England                          | 31 (2.7)            | 68 (2.4) ●               |
| Austria                          | 30 (2.3)            | 61 (2.2) ●               |
| Denmark                          | 29 (2.4)            | 57 (2.6)                 |
| Finland                          | 29 (2.6)            | 63 (2.5) ●               |
| Japan                            | 28 (1.9)            | 79 (1.8) ●               |
| Sweden                           | 28 (2.3)            | 62 (2.4) ●               |
| Slovak Republic                  | 28 (2.0)            | 60 (2.2) ●               |
| Kazakhstan                       | 28 (2.4)            | 51 (2.7)                 |
| Chile                            | 27 (1.7)            | 71 (2.2) ●               |
| <b>International Avg.</b>        | <b>27 (0.3)</b>     | <b>56 (0.3)</b>          |
| Saudi Arabia                     | 26 (2.1)            | 42 (2.4) ▼               |
| Croatia                          | 25 (1.9)            | 70 (2.4) ●               |
| Malta                            | 24 (1.8)            | 50 (2.1) ▼               |
| Norway                           | 24 (2.2)            | 54 (3.2)                 |
| New Zealand                      | 23 (1.8) ▼          | 52 (2.3)                 |
| Czech Republic                   | 21 (2.3) ▼          | 50 (2.7) ▼               |
| Serbia                           | 20 (1.7) ▼          | 56 (2.4)                 |
| Turkey                           | 20 (1.4) ▼          | 59 (2.1)                 |
| Slovenia                         | 18 (2.2) ▼          | 45 (2.5) ▼               |
| Romania                          | 18 (1.7) ▼          | 48 (2.6) ▼               |
| Russian Federation               | 17 (1.5) ▼          | 48 (2.3) ▼               |
| United Arab Emirates             | 16 (0.9) ▼          | 40 (1.3) ▼               |
| Qatar                            | 15 (2.0) ▼          | 33 (2.8) ▼               |
| Thailand                         | 15 (1.6) ▼          | 42 (2.9) ▼               |
| Oman                             | 14 (1.3) ▼          | 37 (2.0) ▼               |
| Tunisia                          | 14 (1.5) ▼          | 31 (1.8) ▼               |
| Kuwait                           | 12 (1.3) ▼          | 30 (1.8) ▼               |
| Lithuania                        | 12 (1.4) ▼          | 40 (2.4) ▼               |
| Armenia                          | 9 (1.4) ▼           | 23 (2.2) ▼               |
| Azerbaijan                       | 6 (1.2) ▼           | 31 (2.4) ▼               |
| Morocco                          | 4 (0.6) ▼           | 8 (1.0) ▼                |
| Georgia                          | 2 (0.6) ▼           | 21 (2.2) ▼               |
| Yemen                            | 1 (0.4) ▼           | 4 (0.8) ▼                |
| <b>Sixth Grade Participants</b>  |                     |                          |
| Honduras                         | 23 (1.8)            | 50 (2.3) ▼               |
| Yemen                            | 18 (2.4) ▼          | 64 (2.9) ●               |
| Botswana                         | 9 (1.1) ▼           | 30 (2.2) ▼               |
| <b>Benchmarking Participants</b> |                     |                          |
| Florida, US                      | 44 (2.5) ●          | 75 (2.2) ●               |
| Quebec, Canada                   | 44 (2.1) ▲          | 77 (1.6) ●               |
| Alberta, Canada                  | 42 (2.8) ●          | 77 (2.1) ●               |
| North Carolina, US               | 42 (3.3) ▲          | 73 (2.4) ●               |
| Ontario, Canada                  | 31 (2.3)            | 67 (2.1) ●               |
| Dubai, UAE                       | 27 (1.7)            | 55 (2.0)                 |
| Abu Dhabi, UAE                   | 13 (1.8) ▼          | 35 (2.7) ▼               |

- Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_04 (S031361): Eyes in different outside conditions  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Finland                          | 77 (2.0)        | ▲ |
| Chinese Taipei                   | 74 (2.0)        | ▲ |
| Hong Kong SAR                    | 74 (2.1)        | ▲ |
| Netherlands                      | 69 (2.1)        | ▲ |
| Singapore                        | 68 (1.6)        | ▲ |
| Germany                          | 68 (2.4)        | ▲ |
| Portugal                         | 68 (2.5)        | ▲ |
| Sweden                           | 68 (2.4)        | ▲ |
| United States                    | 66 (1.5)        | ▲ |
| Denmark                          | 65 (2.3)        | ▲ |
| England                          | 65 (2.4)        | ▲ |
| Slovenia                         | 65 (2.4)        | ▲ |
| Korea, Rep. of                   | 62 (1.8)        | ▲ |
| Australia                        | 62 (2.2)        | ▲ |
| Hungary                          | 62 (2.4)        | ▲ |
| Spain                            | 61 (2.0)        | ▲ |
| Belgium (Flemish)                | 61 (2.4)        | ▲ |
| Ireland                          | 60 (2.7)        |   |
| Italy                            | 60 (2.3)        |   |
| Chile                            | 60 (2.5)        |   |
| Slovak Republic                  | 60 (2.7)        |   |
| New Zealand                      | 59 (1.8)        |   |
| Austria                          | 59 (2.5)        |   |
| Turkey                           | 59 (1.8)        |   |
| Japan                            | 59 (1.9)        |   |
| Russian Federation               | 58 (2.6)        |   |
| Czech Republic                   | 57 (2.8)        |   |
| Romania                          | 57 (2.2)        |   |
| Northern Ireland                 | 56 (2.7)        |   |
| <b>International Avg.</b>        | <b>56 (0.3)</b> |   |
| Croatia                          | 54 (2.3)        |   |
| Qatar                            | 53 (3.2)        |   |
| Serbia                           | 52 (2.5)        |   |
| Poland                           | 51 (2.1)        | ▼ |
| United Arab Emirates             | 51 (1.3)        | ▼ |
| Norway                           | 51 (2.9)        |   |
| Malta                            | 51 (2.3)        | ▼ |
| Saudi Arabia                     | 51 (2.3)        | ▼ |
| Kazakhstan                       | 50 (2.8)        | ▼ |
| Armenia                          | 49 (2.7)        | ▼ |
| Thailand                         | 49 (2.3)        | ▼ |
| Lithuania                        | 47 (2.4)        | ▼ |
| Bahrain                          | 46 (2.3)        | ▼ |
| Iran, Islamic Rep. of            | 46 (2.4)        | ▼ |
| Azerbaijan                       | 43 (2.6)        | ▼ |
| Oman                             | 42 (1.5)        | ▼ |
| Kuwait                           | 40 (2.1)        | ▼ |
| Georgia                          | 35 (2.8)        | ▼ |
| Yemen                            | 32 (1.5)        | ▼ |
| Morocco                          | 32 (2.5)        | ▼ |
| Tunisia                          | 30 (2.7)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 45 (2.1)        | ▼ |
| Yemen                            | 42 (2.9)        | ▼ |
| Botswana                         | 38 (2.2)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| North Carolina, US               | 70 (3.3)        | ▲ |
| Florida, US                      | 70 (1.7)        | ▲ |
| Alberta, Canada                  | 65 (2.2)        | ▲ |
| Ontario, Canada                  | 60 (2.5)        |   |
| Dubai, UAE                       | 56 (1.7)        |   |
| Quebec, Canada                   | 54 (2.3)        |   |
| Abu Dhabi, UAE                   | 50 (2.3)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_05 (S031001): How tadpoles get in the pond  
Multiple Choice (Key is D)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 97 (0.8)        | ▲ |
| Japan                            | 95 (0.9)        | ▲ |
| Netherlands                      | 93 (1.3)        | ▲ |
| Singapore                        | 93 (1.0)        | ▲ |
| Slovenia                         | 92 (1.2)        | ▲ |
| Poland                           | 91 (1.3)        | ▲ |
| Chinese Taipei                   | 90 (1.1)        | ▲ |
| Finland                          | 90 (1.4)        | ▲ |
| Hong Kong SAR                    | 90 (1.4)        | ▲ |
| Germany                          | 90 (1.2)        | ▲ |
| Austria                          | 89 (1.6)        | ▲ |
| Northern Ireland                 | 89 (1.8)        | ▲ |
| Ireland                          | 88 (1.7)        | ▲ |
| Belgium (Flemish)                | 88 (1.4)        | ▲ |
| England                          | 87 (1.4)        | ▲ |
| Denmark                          | 87 (1.7)        | ▲ |
| Czech Republic                   | 87 (1.8)        | ▲ |
| Australia                        | 86 (1.3)        | ▲ |
| Sweden                           | 86 (1.6)        | ▲ |
| Italy                            | 86 (1.7)        | ▲ |
| United States                    | 86 (1.0)        | ▲ |
| Russian Federation               | 85 (1.4)        | ▲ |
| Norway                           | 85 (2.1)        | ▲ |
| Croatia                          | 84 (1.8)        | ▲ |
| Thailand                         | 82 (1.9)        | ▲ |
| Portugal                         | 82 (2.0)        | ▲ |
| Lithuania                        | 82 (1.8)        | ▲ |
| New Zealand                      | 81 (1.7)        | ▲ |
| Spain                            | 80 (1.7)        | ▲ |
| Hungary                          | 80 (2.0)        | ▲ |
| Serbia                           | 77 (2.1)        |   |
| Slovak Republic                  | 77 (1.7)        |   |
| <b>International Avg.</b>        | <b>76 (0.3)</b> |   |
| Romania                          | 76 (2.3)        |   |
| Malta                            | 75 (2.0)        |   |
| Iran, Islamic Rep. of            | 75 (1.7)        |   |
| Chile                            | 72 (1.9)        | ▼ |
| Turkey                           | 68 (2.0)        | ▼ |
| United Arab Emirates             | 65 (1.2)        | ▼ |
| Bahrain                          | 65 (1.9)        | ▼ |
| Kazakhstan                       | 65 (2.7)        | ▼ |
| Azerbaijan                       | 63 (2.6)        | ▼ |
| Oman                             | 63 (1.4)        | ▼ |
| Georgia                          | 59 (2.5)        | ▼ |
| Qatar                            | 57 (3.2)        | ▼ |
| Saudi Arabia                     | 54 (2.5)        | ▼ |
| Armenia                          | 52 (2.3)        | ▼ |
| Kuwait                           | 43 (2.0)        | ▼ |
| Tunisia                          | 38 (3.0)        | ▼ |
| Morocco                          | 33 (1.9)        | ▼ |
| Yemen                            | 21 (1.8)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 78 (2.4)        |   |
| Yemen                            | 53 (2.0)        | ▼ |
| Botswana                         | 39 (2.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Quebec, Canada                   | 87 (1.8)        | ▲ |
| North Carolina, US               | 87 (2.2)        | ▲ |
| Florida, US                      | 86 (1.7)        | ▲ |
| Alberta, Canada                  | 86 (1.6)        | ▲ |
| Ontario, Canada                  | 84 (1.5)        | ▲ |
| Dubai, UAE                       | 73 (1.5)        | ▼ |
| Abu Dhabi, UAE                   | 59 (2.3)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_07 (S031410): Which is a mixture  
Multiple Choice (Key is A)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Turkey                           | 88 (1.4) ▲      |
| Korea, Rep. of                   | 82 (1.6) ▲      |
| Georgia                          | 79 (1.9) ▲      |
| United States                    | 79 (1.1) ▲      |
| Portugal                         | 78 (2.8) ▲      |
| Finland                          | 77 (2.3) ▲      |
| Chinese Taipei                   | 76 (2.0) ▲      |
| Azerbaijan                       | 76 (1.9) ▲      |
| Hungary                          | 75 (2.0) ▲      |
| Romania                          | 75 (2.5) ▲      |
| Austria                          | 75 (1.8) ▲      |
| Denmark                          | 75 (2.1) ▲      |
| Singapore                        | 75 (1.4) ▲      |
| Bahrain                          | 73 (1.8) ▲      |
| Russian Federation               | 73 (2.1) ▲      |
| Armenia                          | 72 (1.9) ▲      |
| Spain                            | 72 (2.2) ▲      |
| Saudi Arabia                     | 71 (2.6) ▲      |
| Germany                          | 71 (1.8) ▲      |
| United Arab Emirates             | 69 (1.3) ▲      |
| England                          | 69 (2.4)        |
| Northern Ireland                 | 69 (2.8)        |
| Belgium (Flemish)                | 68 (2.1) ▲      |
| Ireland                          | 67 (2.9)        |
| Chile                            | 67 (2.3)        |
| Sweden                           | 66 (2.4)        |
| Lithuania                        | 65 (2.6)        |
| Norway                           | 65 (3.2)        |
| Oman                             | 65 (1.3)        |
| New Zealand                      | 65 (2.0)        |
| International Avg.               | 64 (0.3)        |
| Australia                        | 64 (2.0)        |
| Netherlands                      | 64 (2.4)        |
| Japan                            | 61 (2.1)        |
| Hong Kong SAR                    | 60 (2.0) ▼      |
| Italy                            | 59 (2.1) ▼      |
| Qatar                            | 58 (2.2) ▼      |
| Serbia                           | 57 (2.3) ▼      |
| Iran, Islamic Rep. of            | 57 (2.1) ▼      |
| Kazakhstan                       | 54 (2.8) ▼      |
| Malta                            | 53 (2.1) ▼      |
| Poland                           | 52 (2.0) ▼      |
| Slovak Republic                  | 52 (2.0) ▼      |
| Kuwait                           | 51 (2.3) ▼      |
| Slovenia                         | 48 (2.8) ▼      |
| Czech Republic                   | 47 (2.8) ▼      |
| Morocco                          | 42 (1.7) ▼      |
| Croatia                          | 40 (2.2) ▼      |
| Thailand                         | 37 (2.2) ▼      |
| Tunisia                          | 35 (2.0) ▼      |
| Yemen                            | 34 (1.9) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 69 (2.5) ▲      |
| Yemen                            | 57 (2.8) ▼      |
| Botswana                         | 55 (2.1) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Florida, US                      | 77 (2.3) ▲      |
| North Carolina, US               | 76 (2.4) ▲      |
| Dubai, UAE                       | 74 (1.7) ▲      |
| Alberta, Canada                  | 73 (2.1) ▲      |
| Ontario, Canada                  | 70 (2.1) ▲      |
| Quebec, Canada                   | 65 (2.3)        |
| Abu Dhabi, UAE                   | 65 (2.2)        |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_08 (S031421): Materials that will burn  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Germany                          | 87 (1.7)        | ▲ |
| Russian Federation               | 87 (1.6)        | ▲ |
| Czech Republic                   | 86 (1.6)        | ▲ |
| Croatia                          | 81 (1.6)        | ▲ |
| Finland                          | 81 (1.7)        | ▲ |
| Hungary                          | 80 (1.6)        | ▲ |
| Austria                          | 80 (1.7)        | ▲ |
| Lithuania                        | 78 (2.2)        | ▲ |
| Serbia                           | 77 (2.4)        | ▲ |
| Romania                          | 76 (2.4)        | ▲ |
| Slovak Republic                  | 74 (1.8)        | ▲ |
| Denmark                          | 73 (1.7)        | ▲ |
| Netherlands                      | 73 (2.0)        | ▲ |
| Kazakhstan                       | 73 (2.2)        | ▲ |
| Turkey                           | 72 (1.7)        | ▲ |
| Poland                           | 71 (2.0)        | ▲ |
| Azerbaijan                       | 69 (2.5)        | ▲ |
| Japan                            | 68 (2.0)        | ▲ |
| Portugal                         | 67 (2.7)        | ▲ |
| Italy                            | 66 (2.3)        | ▲ |
| Northern Ireland                 | 64 (2.5)        |   |
| Armenia                          | 64 (2.3)        |   |
| Slovenia                         | 64 (2.4)        |   |
| Belgium (Flemish)                | 63 (1.9)        |   |
| Norway                           | 62 (2.4)        |   |
| Ireland                          | 62 (2.3)        |   |
| Georgia                          | 61 (2.3)        |   |
| <b>International Avg.</b>        | <b>61 (0.3)</b> |   |
| England                          | 60 (2.5)        |   |
| Sweden                           | 60 (2.5)        |   |
| Australia                        | 57 (1.7)        |   |
| United States                    | 56 (1.7)        | ▼ |
| Spain                            | 55 (2.2)        | ▼ |
| Chile                            | 55 (2.0)        | ▼ |
| Chinese Taipei                   | 54 (2.1)        | ▼ |
| Saudi Arabia                     | 52 (2.5)        | ▼ |
| Korea, Rep. of                   | 52 (2.2)        | ▼ |
| New Zealand                      | 51 (2.3)        | ▼ |
| Bahrain                          | 51 (1.9)        | ▼ |
| Singapore                        | 51 (1.5)        | ▼ |
| Iran, Islamic Rep. of            | 50 (2.2)        | ▼ |
| Malta                            | 50 (1.8)        | ▼ |
| United Arab Emirates             | 47 (1.7)        | ▼ |
| Hong Kong SAR                    | 45 (2.1)        | ▼ |
| Tunisia                          | 43 (2.3)        | ▼ |
| Oman                             | 40 (1.5)        | ▼ |
| Thailand                         | 36 (2.6)        | ▼ |
| Qatar                            | 35 (2.6)        | ▼ |
| Kuwait                           | 30 (2.0)        | ▼ |
| Morocco                          | 23 (1.5)        | ▼ |
| Yemen                            | 17 (1.8)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 55 (2.7)        |   |
| Yemen                            | 41 (2.1)        | ▼ |
| Botswana                         | 38 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Quebec, Canada                   | 60 (2.5)        |   |
| North Carolina, US               | 59 (3.1)        |   |
| Alberta, Canada                  | 58 (2.5)        |   |
| Florida, US                      | 57 (2.6)        |   |
| Ontario, Canada                  | 54 (2.5)        | ▼ |
| Dubai, UAE                       | 50 (1.7)        | ▼ |
| Abu Dhabi, UAE                   | 45 (2.5)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_09 (S031298): Boiled egg in cold water  
Multiple Choice (Key is B)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Singapore                        | 73 (1.7) ▲      |
| Korea, Rep. of                   | 67 (2.0) ▲      |
| Romania                          | 54 (2.5) ▲      |
| Azerbaijan                       | 52 (2.9) ▲      |
| Turkey                           | 51 (1.8) ▲      |
| Japan                            | 51 (2.2) ▲      |
| Hong Kong SAR                    | 43 (2.1) ▲      |
| Slovak Republic                  | 43 (1.6) ▲      |
| Chinese Taipei                   | 43 (2.2) ▲      |
| Portugal                         | 41 (2.9) ▲      |
| Serbia                           | 39 (2.4)        |
| Russian Federation               | 39 (2.2) ▲      |
| Georgia                          | 38 (2.3)        |
| Lithuania                        | 37 (2.0)        |
| Morocco                          | 37 (2.0)        |
| United States                    | 35 (1.3)        |
| Saudi Arabia                     | 35 (2.3)        |
| Italy                            | 34 (2.1)        |
| Croatia                          | 34 (2.1)        |
| <b>International Avg.</b>        | <b>34 (0.3)</b> |
| Armenia                          | 34 (2.4)        |
| Kuwait                           | 34 (1.8)        |
| Thailand                         | 33 (2.2)        |
| Finland                          | 32 (2.1)        |
| Qatar                            | 31 (2.3)        |
| Bahrain                          | 30 (2.1)        |
| Poland                           | 30 (1.9) ▼      |
| England                          | 30 (2.5)        |
| United Arab Emirates             | 30 (1.2) ▼      |
| Chile                            | 30 (2.1) ▼      |
| Norway                           | 29 (2.7)        |
| Ireland                          | 29 (2.9)        |
| Iran, Islamic Rep. of            | 29 (1.6) ▼      |
| Denmark                          | 29 (2.1) ▼      |
| Germany                          | 28 (1.8) ▼      |
| Czech Republic                   | 28 (2.5) ▼      |
| Hungary                          | 27 (2.0) ▼      |
| Malta                            | 27 (1.8) ▼      |
| Austria                          | 27 (2.0) ▼      |
| Northern Ireland                 | 27 (1.9) ▼      |
| Slovenia                         | 27 (2.2) ▼      |
| Yemen                            | 26 (1.8) ▼      |
| Oman                             | 26 (1.7) ▼      |
| Australia                        | 26 (2.1) ▼      |
| New Zealand                      | 26 (1.8) ▼      |
| Sweden                           | 26 (2.2) ▼      |
| Tunisia                          | 25 (1.8) ▼      |
| Belgium (Flemish)                | 24 (1.9) ▼      |
| Spain                            | 23 (2.2) ▼      |
| Kazakhstan                       | 21 (2.1) ▼      |
| Netherlands                      | 14 (1.8) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 39 (2.4) ▲      |
| Yemen                            | 29 (2.7)        |
| Botswana                         | 28 (1.8) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Florida, US                      | 33 (2.1)        |
| Alberta, Canada                  | 32 (2.6)        |
| Dubai, UAE                       | 31 (1.9)        |
| North Carolina, US               | 30 (2.8)        |
| Abu Dhabi, UAE                   | 27 (2.1) ▼      |
| Ontario, Canada                  | 25 (2.3) ▼      |
| Quebec, Canada                   | 15 (1.5) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_10 (S031076): Two carts holding magnets  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Singapore                        | 90 (1.2)        | ▲ |
| Korea, Rep. of                   | 88 (1.1)        | ▲ |
| Japan                            | 87 (1.7)        | ▲ |
| Chinese Taipei                   | 77 (1.9)        | ▲ |
| United States                    | 58 (1.5)        | ▲ |
| England                          | 53 (2.8)        | ▲ |
| Iran, Islamic Rep. of            | 51 (1.9)        | ▲ |
| Romania                          | 50 (2.5)        | ▲ |
| Hong Kong SAR                    | 49 (2.5)        | ▲ |
| Russian Federation               | 48 (2.6)        | ▲ |
| Slovenia                         | 48 (2.1)        | ▲ |
| Austria                          | 48 (2.7)        | ▲ |
| Germany                          | 43 (2.2)        | ▲ |
| Ireland                          | 42 (2.8)        | ▲ |
| Denmark                          | 42 (2.1)        | ▲ |
| Malta                            | 40 (2.2)        |   |
| Hungary                          | 40 (2.5)        |   |
| Kuwait                           | 40 (1.9)        |   |
| Finland                          | 38 (2.7)        |   |
| Slovak Republic                  | 37 (2.4)        |   |
| Portugal                         | 37 (3.1)        |   |
| <b>International Avg.</b>        | <b>36 (0.3)</b> |   |
| Sweden                           | 36 (2.5)        |   |
| Serbia                           | 36 (2.5)        |   |
| Thailand                         | 36 (2.5)        |   |
| Australia                        | 35 (2.1)        |   |
| Netherlands                      | 34 (2.6)        |   |
| New Zealand                      | 33 (1.9)        |   |
| Czech Republic                   | 32 (2.7)        |   |
| Bahrain                          | 32 (2.2)        |   |
| United Arab Emirates             | 31 (1.4)        | ▼ |
| Qatar                            | 30 (1.9)        | ▼ |
| Kazakhstan                       | 27 (2.5)        | ▼ |
| Northern Ireland                 | 27 (2.1)        | ▼ |
| Saudi Arabia                     | 27 (3.1)        | ▼ |
| Lithuania                        | 27 (1.9)        | ▼ |
| Spain                            | 26 (2.5)        | ▼ |
| Turkey                           | 26 (2.3)        | ▼ |
| Azerbaijan                       | 25 (2.5)        | ▼ |
| Chile                            | 23 (1.6)        | ▼ |
| Georgia                          | 23 (2.4)        | ▼ |
| Poland                           | 22 (1.9)        | ▼ |
| Oman                             | 22 (1.6)        | ▼ |
| Norway                           | 21 (2.3)        | ▼ |
| Belgium (Flemish)                | 19 (1.6)        | ▼ |
| Italy                            | 18 (2.2)        | ▼ |
| Croatia                          | 17 (1.5)        | ▼ |
| Armenia                          | 11 (1.8)        | ▼ |
| Yemen                            | 2 (0.6)         | ▼ |
| Tunisia                          | 2 (0.6)         | ▼ |
| Morocco                          | 1 (0.3)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 28 (2.2)        | ▼ |
| Yemen                            | 8 (1.4)         | ▼ |
| Botswana                         | 7 (1.2)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 64 (2.4)        | ▲ |
| North Carolina, US               | 55 (3.1)        | ▲ |
| Florida, US                      | 54 (2.6)        | ▲ |
| Ontario, Canada                  | 50 (2.6)        | ▲ |
| Dubai, UAE                       | 33 (1.7)        | ▼ |
| Quebec, Canada                   | 32 (2.4)        |   |
| Abu Dhabi, UAE                   | 31 (2.6)        |   |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S05\_11 (S031275): Explanation for day and night  
Multiple Choice (Key is C)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Slovak Republic                  | 58 (1.8) ▲      |
| Czech Republic                   | 58 (2.7) ▲      |
| Russian Federation               | 54 (3.2) ▲      |
| Lithuania                        | 52 (2.8) ▲      |
| Chile                            | 52 (1.8) ▲      |
| Azerbaijan                       | 47 (2.4) ▲      |
| Germany                          | 46 (2.2) ▲      |
| Bahrain                          | 46 (2.3) ▲      |
| Slovenia                         | 46 (2.6) ▲      |
| Saudi Arabia                     | 45 (2.6) ▲      |
| Armenia                          | 44 (2.8) ▲      |
| Austria                          | 44 (2.3) ▲      |
| Portugal                         | 44 (2.4) ▲      |
| Hong Kong SAR                    | 43 (2.3) ▲      |
| Qatar                            | 42 (2.3) ▲      |
| Poland                           | 40 (2.1) ▲      |
| Hungary                          | 39 (2.4) ▲      |
| Finland                          | 39 (2.5)        |
| Turkey                           | 39 (1.8) ▲      |
| Serbia                           | 37 (2.6)        |
| Georgia                          | 37 (2.7)        |
| England                          | 37 (3.0)        |
| Croatia                          | 37 (2.1)        |
| Chinese Taipei                   | 36 (2.2)        |
| United Arab Emirates             | 36 (1.2)        |
| Kazakhstan                       | 35 (3.0)        |
| <b>International Avg.</b>        | <b>35 (0.3)</b> |
| Spain                            | 34 (2.2)        |
| Romania                          | 32 (2.7)        |
| United States                    | 32 (1.3)        |
| Belgium (Flemish)                | 32 (2.2)        |
| Sweden                           | 30 (2.5)        |
| Australia                        | 30 (2.4) ▼      |
| Singapore                        | 29 (1.6) ▼      |
| Kuwait                           | 29 (1.8) ▼      |
| Japan                            | 28 (1.7) ▼      |
| Denmark                          | 27 (1.8) ▼      |
| Thailand                         | 25 (2.1) ▼      |
| Netherlands                      | 25 (2.0) ▼      |
| Iran, Islamic Rep. of            | 24 (1.9) ▼      |
| Italy                            | 23 (2.2) ▼      |
| Malta                            | 23 (2.0) ▼      |
| Oman                             | 23 (1.4) ▼      |
| New Zealand                      | 22 (1.9) ▼      |
| Yemen                            | 21 (1.8) ▼      |
| Korea, Rep. of                   | 20 (1.7) ▼      |
| Ireland                          | 20 (2.4) ▼      |
| Morocco                          | 19 (1.6) ▼      |
| Tunisia                          | 18 (1.9) ▼      |
| Northern Ireland                 | 16 (1.9) ▼      |
| Norway                           | 14 (2.0) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 21 (1.7) ▼      |
| Yemen                            | 18 (2.4) ▼      |
| Botswana                         | 11 (1.4) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Dubai, UAE                       | 38 (2.1)        |
| Florida, US                      | 38 (2.0)        |
| Abu Dhabi, UAE                   | 37 (2.2)        |
| Quebec, Canada                   | 27 (1.9) ▼      |
| North Carolina, US               | 25 (2.8) ▼      |
| Alberta, Canada                  | 22 (2.4) ▼      |
| Ontario, Canada                  | 21 (1.8) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_01 (S041311): Thermometer reading hottest water  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Belgium (Flemish)                | 98 (0.4)        | ▲ |
| Netherlands                      | 98 (0.7)        | ▲ |
| Chinese Taipei                   | 98 (0.7)        | ▲ |
| Russian Federation               | 97 (0.9)        | ▲ |
| Slovak Republic                  | 97 (0.6)        | ▲ |
| Korea, Rep. of                   | 97 (0.7)        | ▲ |
| Hungary                          | 97 (0.6)        | ▲ |
| Ireland                          | 97 (0.7)        | ▲ |
| Japan                            | 97 (0.7)        | ▲ |
| Singapore                        | 97 (0.6)        | ▲ |
| Austria                          | 97 (0.9)        | ▲ |
| Sweden                           | 96 (0.9)        | ▲ |
| Serbia                           | 96 (1.0)        | ▲ |
| Lithuania                        | 96 (0.8)        | ▲ |
| Finland                          | 96 (0.9)        | ▲ |
| Croatia                          | 96 (0.9)        | ▲ |
| Slovenia                         | 96 (0.8)        | ▲ |
| Italy                            | 95 (1.0)        | ▲ |
| Hong Kong SAR                    | 95 (1.0)        | ▲ |
| Poland                           | 95 (0.9)        | ▲ |
| Northern Ireland                 | 95 (1.3)        | ▲ |
| Germany                          | 95 (1.0)        | ▲ |
| Portugal                         | 94 (1.3)        | ▲ |
| United States                    | 94 (0.8)        | ▲ |
| Chile                            | 94 (0.8)        | ▲ |
| Denmark                          | 94 (1.0)        | ▲ |
| New Zealand                      | 93 (0.9)        | ▲ |
| Georgia                          | 93 (1.3)        |   |
| Australia                        | 93 (1.2)        |   |
| England                          | 93 (1.2)        |   |
| Czech Republic                   | 92 (1.5)        |   |
| Spain                            | 92 (1.3)        |   |
| Norway                           | 91 (1.9)        |   |
| Kazakhstan                       | 91 (1.5)        |   |
| <b>International Avg.</b>        | <b>91 (0.2)</b> |   |
| Romania                          | 91 (1.6)        |   |
| Saudi Arabia                     | 89 (1.6)        |   |
| Malta                            | 89 (1.5)        |   |
| Turkey                           | 89 (0.9)        | ▼ |
| Bahrain                          | 89 (1.4)        |   |
| United Arab Emirates             | 87 (0.9)        | ▼ |
| Thailand                         | 87 (1.5)        | ▼ |
| Armenia                          | 85 (1.5)        | ▼ |
| Azerbaijan                       | 81 (2.0)        | ▼ |
| Qatar                            | 81 (1.5)        | ▼ |
| Oman                             | 80 (1.4)        | ▼ |
| Iran, Islamic Rep. of            | 79 (1.6)        | ▼ |
| Kuwait                           | 79 (1.8)        | ▼ |
| Morocco                          | 77 (2.8)        | ▼ |
| Tunisia                          | 76 (2.0)        | ▼ |
| Yemen                            | 62 (2.5)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 85 (1.7)        | ▼ |
| Yemen                            | 85 (2.1)        | ▼ |
| Botswana                         | 85 (1.6)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Ontario, Canada                  | 94 (1.0)        | ▲ |
| North Carolina, US               | 94 (1.5)        |   |
| Alberta, Canada                  | 93 (1.4)        |   |
| Quebec, Canada                   | 93 (1.6)        |   |
| Florida, US                      | 92 (1.5)        |   |
| Dubai, UAE                       | 87 (1.4)        | ▼ |
| Abu Dhabi, UAE                   | 85 (1.6)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_02 (S041178): What plants use energy for  
Multiple Choice (Key is A)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 93 (1.1)        | ▲ |
| Singapore                        | 88 (1.3)        | ▲ |
| Hong Kong SAR                    | 87 (1.6)        | ▲ |
| Chinese Taipei                   | 85 (1.5)        | ▲ |
| Japan                            | 85 (1.6)        | ▲ |
| Saudi Arabia                     | 79 (2.1)        | ▲ |
| Bahrain                          | 78 (1.8)        | ▲ |
| Spain                            | 75 (2.2)        | ▲ |
| Turkey                           | 73 (2.0)        | ▲ |
| Thailand                         | 72 (2.8)        | ▲ |
| Finland                          | 71 (2.2)        | ▲ |
| Iran, Islamic Rep. of            | 71 (1.9)        | ▲ |
| Czech Republic                   | 70 (2.6)        | ▲ |
| Serbia                           | 69 (2.6)        | ▲ |
| Hungary                          | 68 (2.0)        | ▲ |
| Oman                             | 68 (1.6)        | ▲ |
| Croatia                          | 68 (2.1)        | ▲ |
| Kuwait                           | 67 (2.0)        | ▲ |
| United Arab Emirates             | 66 (1.4)        | ▲ |
| Italy                            | 63 (2.3)        | ▲ |
| Russian Federation               | 61 (2.7)        | ▲ |
| United States                    | 60 (1.6)        | ▲ |
| Qatar                            | 56 (2.3)        |   |
| Romania                          | 55 (2.4)        |   |
| <b>International Avg.</b>        | <b>51 (0.3)</b> |   |
| Lithuania                        | 49 (2.2)        |   |
| Portugal                         | 48 (2.6)        |   |
| England                          | 46 (2.9)        | ▼ |
| Kazakhstan                       | 45 (3.1)        | ▼ |
| Chile                            | 44 (1.9)        | ▼ |
| Azerbaijan                       | 44 (2.7)        | ▼ |
| Netherlands                      | 42 (2.8)        | ▼ |
| Slovenia                         | 42 (2.8)        | ▼ |
| Belgium (Flemish)                | 40 (2.4)        | ▼ |
| Malta                            | 35 (2.0)        | ▼ |
| Slovak Republic                  | 35 (2.4)        | ▼ |
| Armenia                          | 34 (2.0)        | ▼ |
| Georgia                          | 32 (2.2)        | ▼ |
| Poland                           | 31 (2.1)        | ▼ |
| Ireland                          | 30 (2.6)        | ▼ |
| Germany                          | 30 (2.1)        | ▼ |
| New Zealand                      | 29 (2.0)        | ▼ |
| Australia                        | 29 (2.0)        | ▼ |
| Northern Ireland                 | 29 (2.9)        | ▼ |
| Yemen                            | 28 (2.1)        | ▼ |
| Austria                          | 28 (1.9)        | ▼ |
| Morocco                          | 23 (2.3)        | ▼ |
| Tunisia                          | 21 (1.6)        | ▼ |
| Sweden                           | 14 (1.5)        | ▼ |
| Norway                           | 9 (1.6)         | ▼ |
| Denmark                          | 8 (1.3)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 50 (2.4)        |   |
| Yemen                            | 44 (2.2)        | ▼ |
| Botswana                         | 28 (2.6)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Dubai, UAE                       | 70 (1.4)        | ▲ |
| Florida, US                      | 64 (2.5)        | ▲ |
| Ontario, Canada                  | 59 (2.2)        | ▲ |
| Abu Dhabi, UAE                   | 58 (2.7)        | ▲ |
| North Carolina, US               | 46 (3.8)        |   |
| Alberta, Canada                  | 42 (2.6)        | ▼ |
| Quebec, Canada                   | 24 (2.1)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_03 (S041182): One thing to avoid flu  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Japan                            | 93 (0.9)        | ▲ |
| Korea, Rep. of                   | 78 (1.8)        | ▲ |
| Russian Federation               | 77 (2.1)        | ▲ |
| Chinese Taipei                   | 75 (2.1)        | ▲ |
| Singapore                        | 67 (2.0)        | ▲ |
| Kazakhstan                       | 66 (2.2)        | ▲ |
| Finland                          | 61 (2.6)        | ▲ |
| United States                    | 61 (1.5)        | ▲ |
| Portugal                         | 57 (2.6)        | ▲ |
| Hong Kong SAR                    | 55 (2.6)        | ▲ |
| Ireland                          | 54 (2.3)        | ▲ |
| Lithuania                        | 53 (2.2)        | ▲ |
| Chile                            | 53 (1.7)        | ▲ |
| Georgia                          | 49 (2.6)        | ▲ |
| Norway                           | 48 (2.8)        | ▲ |
| Iran, Islamic Rep. of            | 48 (1.9)        | ▲ |
| Thailand                         | 47 (3.4)        |   |
| England                          | 46 (3.3)        |   |
| Australia                        | 46 (1.8)        | ▲ |
| Denmark                          | 44 (2.3)        |   |
| Croatia                          | 44 (2.1)        |   |
| Spain                            | 43 (2.2)        |   |
| Sweden                           | 43 (2.6)        |   |
| Serbia                           | 42 (2.7)        |   |
| <b>International Avg.</b>        | <b>42 (0.3)</b> |   |
| Netherlands                      | 41 (2.3)        |   |
| New Zealand                      | 40 (2.5)        |   |
| Northern Ireland                 | 40 (2.5)        |   |
| Hungary                          | 39 (1.7)        |   |
| Romania                          | 38 (2.8)        |   |
| Slovenia                         | 38 (2.4)        |   |
| Germany                          | 37 (1.9)        | ▼ |
| Azerbaijan                       | 36 (3.1)        |   |
| Turkey                           | 35 (1.5)        | ▼ |
| Slovak Republic                  | 35 (2.2)        | ▼ |
| Austria                          | 35 (2.6)        | ▼ |
| Armenia                          | 35 (2.1)        | ▼ |
| Czech Republic                   | 33 (2.2)        | ▼ |
| Poland                           | 31 (2.4)        | ▼ |
| Saudi Arabia                     | 29 (2.1)        | ▼ |
| Bahrain                          | 27 (2.1)        | ▼ |
| United Arab Emirates             | 25 (1.0)        | ▼ |
| Belgium (Flemish)                | 24 (2.0)        | ▼ |
| Italy                            | 23 (1.8)        | ▼ |
| Oman                             | 20 (1.6)        | ▼ |
| Malta                            | 19 (1.7)        | ▼ |
| Tunisia                          | 18 (1.7)        | ▼ |
| Qatar                            | 17 (1.8)        | ▼ |
| Kuwait                           | 9 (1.4)         | ▼ |
| Yemen                            | 3 (0.9)         | ▼ |
| Morocco                          | 0 (0.2)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 42 (2.6)        |   |
| Yemen                            | 30 (2.3)        | ▼ |
| Botswana                         | 12 (1.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| North Carolina, US               | 58 (3.0)        | ▲ |
| Florida, US                      | 57 (2.7)        | ▲ |
| Quebec, Canada                   | 55 (2.6)        | ▲ |
| Ontario, Canada                  | 52 (2.4)        | ▲ |
| Alberta, Canada                  | 52 (2.7)        | ▲ |
| Dubai, UAE                       | 30 (1.7)        | ▼ |
| Abu Dhabi, UAE                   | 22 (2.1)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_04 (S041180): Correct predator-prey relationship  
Multiple Choice (Key is C)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 87 (1.4)        | ▲ |
| Russian Federation               | 83 (1.4)        | ▲ |
| Czech Republic                   | 81 (2.2)        | ▲ |
| Japan                            | 77 (1.9)        | ▲ |
| Hong Kong SAR                    | 75 (1.7)        | ▲ |
| Finland                          | 75 (2.3)        | ▲ |
| Chinese Taipei                   | 74 (1.9)        | ▲ |
| Italy                            | 73 (2.5)        | ▲ |
| Germany                          | 72 (2.2)        | ▲ |
| Lithuania                        | 71 (2.2)        | ▲ |
| Netherlands                      | 71 (2.0)        | ▲ |
| Hungary                          | 69 (2.0)        | ▲ |
| Thailand                         | 68 (2.5)        | ▲ |
| Croatia                          | 67 (2.0)        | ▲ |
| Portugal                         | 67 (2.6)        | ▲ |
| Serbia                           | 66 (2.4)        | ▲ |
| United States                    | 66 (1.3)        | ▲ |
| Slovak Republic                  | 66 (1.9)        | ▲ |
| Austria                          | 66 (2.3)        | ▲ |
| Poland                           | 66 (2.1)        | ▲ |
| Singapore                        | 64 (2.0)        | ▲ |
| Sweden                           | 62 (2.4)        | ▲ |
| England                          | 62 (2.3)        | ▲ |
| Belgium (Flemish)                | 61 (2.2)        |   |
| Romania                          | 61 (3.4)        |   |
| Spain                            | 60 (2.3)        |   |
| Slovenia                         | 60 (2.2)        |   |
| Chile                            | 60 (1.6)        |   |
| <b>International Avg.</b>        | <b>57 (0.3)</b> |   |
| Australia                        | 57 (1.7)        |   |
| Ireland                          | 53 (3.4)        |   |
| Northern Ireland                 | 52 (2.4)        | ▼ |
| New Zealand                      | 51 (2.0)        | ▼ |
| Turkey                           | 50 (2.0)        | ▼ |
| Denmark                          | 49 (2.4)        | ▼ |
| Bahrain                          | 48 (2.5)        | ▼ |
| Kazakhstan                       | 48 (2.8)        | ▼ |
| Saudi Arabia                     | 47 (2.5)        | ▼ |
| Azerbaijan                       | 42 (2.6)        | ▼ |
| Tunisia                          | 42 (2.0)        | ▼ |
| United Arab Emirates             | 41 (1.0)        | ▼ |
| Oman                             | 39 (1.7)        | ▼ |
| Iran, Islamic Rep. of            | 38 (2.3)        | ▼ |
| Malta                            | 38 (2.3)        | ▼ |
| Qatar                            | 38 (2.4)        | ▼ |
| Georgia                          | 37 (2.6)        | ▼ |
| Armenia                          | 34 (2.5)        | ▼ |
| Kuwait                           | 32 (2.0)        | ▼ |
| Norway                           | 31 (3.2)        | ▼ |
| Morocco                          | 27 (1.8)        | ▼ |
| Yemen                            | 26 (1.9)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 35 (2.3)        | ▼ |
| Yemen                            | 34 (2.7)        | ▼ |
| Botswana                         | 30 (1.9)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| North Carolina, US               | 70 (3.3)        | ▲ |
| Florida, US                      | 68 (2.7)        | ▲ |
| Quebec, Canada                   | 65 (2.8)        | ▲ |
| Alberta, Canada                  | 63 (2.4)        | ▲ |
| Ontario, Canada                  | 58 (2.3)        |   |
| Dubai, UAE                       | 47 (1.8)        | ▼ |
| Abu Dhabi, UAE                   | 41 (2.2)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_05 (S041187): Describes condensation  
Multiple Choice (Key is D)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| England                          | 42 (2.3)        | ▲ |
| Korea, Rep. of                   | 41 (2.2)        | ▲ |
| United Arab Emirates             | 41 (1.2)        | ▲ |
| Lithuania                        | 40 (2.2)        | ▲ |
| Kuwait                           | 39 (2.4)        | ▲ |
| Portugal                         | 38 (2.6)        | ▲ |
| Poland                           | 36 (2.1)        | ▲ |
| Singapore                        | 35 (1.6)        | ▲ |
| Bahrain                          | 34 (1.9)        | ▲ |
| Russian Federation               | 33 (2.4)        | ▲ |
| New Zealand                      | 33 (1.8)        | ▲ |
| Kazakhstan                       | 32 (2.5)        |   |
| Azerbaijan                       | 32 (2.9)        |   |
| Qatar                            | 32 (1.8)        | ▲ |
| United States                    | 32 (1.4)        | ▲ |
| Australia                        | 32 (1.8)        | ▲ |
| Czech Republic                   | 31 (2.8)        |   |
| Ireland                          | 31 (2.2)        |   |
| Northern Ireland                 | 30 (2.8)        |   |
| Hungary                          | 30 (2.2)        |   |
| Malta                            | 29 (1.9)        |   |
| Oman                             | 29 (1.5)        |   |
| Saudi Arabia                     | 29 (2.0)        |   |
| Serbia                           | 28 (2.5)        |   |
| Chile                            | 28 (2.1)        |   |
| Sweden                           | 28 (2.3)        |   |
| International Avg.               | 28 (0.3)        |   |
| Romania                          | 27 (2.0)        |   |
| Yemen                            | 27 (2.1)        |   |
| Italy                            | 27 (2.0)        |   |
| Netherlands                      | 26 (2.1)        |   |
| Armenia                          | 26 (1.8)        |   |
| Georgia                          | 25 (2.0)        |   |
| Slovak Republic                  | 25 (1.6)        |   |
| Morocco                          | 24 (1.9)        | ▼ |
| Turkey                           | 24 (1.4)        | ▼ |
| Denmark                          | 23 (2.2)        | ▼ |
| Slovenia                         | 23 (1.9)        | ▼ |
| Belgium (Flemish)                | 22 (1.6)        | ▼ |
| Germany                          | 21 (2.1)        | ▼ |
| Spain                            | 20 (2.2)        | ▼ |
| Finland                          | 20 (2.2)        | ▼ |
| Norway                           | 19 (1.9)        | ▼ |
| Croatia                          | 18 (1.8)        | ▼ |
| Tunisia                          | 18 (1.9)        | ▼ |
| Austria                          | 18 (1.9)        | ▼ |
| Japan                            | 16 (1.6)        | ▼ |
| Thailand                         | 16 (1.9)        | ▼ |
| Chinese Taipei                   | 12 (1.4)        | ▼ |
| Hong Kong SAR                    | - -             |   |
| Iran, Islamic Rep. of            | - -             |   |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 25 (1.7)        |   |
| Yemen                            | 24 (2.0)        | ▼ |
| Botswana                         | 22 (2.2)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Dubai, UAE                       | 42 (1.9)        | ▲ |
| Abu Dhabi, UAE                   | 37 (2.4)        | ▲ |
| Quebec, Canada                   | 35 (2.3)        | ▲ |
| Florida, US                      | 33 (2.7)        | ▲ |
| North Carolina, US               | 30 (3.3)        |   |
| Ontario, Canada                  | 23 (1.8)        | ▼ |
| Alberta, Canada                  | 22 (2.3)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_06A (S041013A): Use of tiger canines  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Denmark                          | 62 (2.3)        | ▲ |
| Kazakhstan                       | 55 (3.2)        | ▲ |
| Russian Federation               | 51 (2.4)        | ▲ |
| Hungary                          | 50 (2.0)        | ▲ |
| Ireland                          | 50 (2.4)        | ▲ |
| England                          | 48 (2.6)        | ▲ |
| Slovenia                         | 47 (2.4)        | ▲ |
| Italy                            | 47 (3.0)        | ▲ |
| Austria                          | 45 (2.3)        | ▲ |
| Sweden                           | 45 (2.5)        | ▲ |
| Northern Ireland                 | 44 (2.9)        | ▲ |
| Czech Republic                   | 43 (2.7)        | ▲ |
| Germany                          | 42 (1.8)        | ▲ |
| Belgium (Flemish)                | 42 (1.9)        | ▲ |
| Finland                          | 40 (2.2)        | ▲ |
| Australia                        | 40 (1.9)        | ▲ |
| Slovak Republic                  | 40 (2.2)        | ▲ |
| United States                    | 38 (1.4)        | ▲ |
| Netherlands                      | 38 (2.3)        | ▲ |
| Romania                          | 37 (2.5)        | ▲ |
| Singapore                        | 37 (1.8)        | ▲ |
| Norway                           | 37 (2.9)        | ▲ |
| New Zealand                      | 36 (1.8)        | ▲ |
| Poland                           | 35 (2.3)        |   |
| Lithuania                        | 33 (2.1)        |   |
| <b>International Avg.</b>        | <b>31 (0.3)</b> |   |
| Tunisia                          | 30 (2.2)        |   |
| Croatia                          | 28 (1.7)        |   |
| Spain                            | 27 (2.1)        | ▼ |
| Azerbaijan                       | 26 (2.4)        | ▼ |
| Serbia                           | 26 (2.0)        | ▼ |
| Malta                            | 24 (1.8)        | ▼ |
| Chile                            | 24 (1.6)        | ▼ |
| Korea, Rep. of                   | 24 (1.5)        | ▼ |
| Armenia                          | 23 (2.2)        | ▼ |
| Portugal                         | 23 (2.8)        | ▼ |
| Japan                            | 23 (2.0)        | ▼ |
| United Arab Emirates             | 22 (1.1)        | ▼ |
| Bahrain                          | 20 (1.8)        | ▼ |
| Iran, Islamic Rep. of            | 19 (1.9)        | ▼ |
| Saudi Arabia                     | 19 (2.0)        | ▼ |
| Hong Kong SAR                    | 18 (1.7)        | ▼ |
| Georgia                          | 18 (1.9)        | ▼ |
| Qatar                            | 17 (1.6)        | ▼ |
| Chinese Taipei                   | 16 (1.6)        | ▼ |
| Turkey                           | 16 (1.3)        | ▼ |
| Thailand                         | 15 (1.7)        | ▼ |
| Oman                             | 13 (1.0)        | ▼ |
| Kuwait                           | 6 (1.1)         | ▼ |
| Yemen                            | 5 (1.1)         | ▼ |
| Morocco                          | 3 (0.7)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 26 (2.0)        | ▼ |
| Yemen                            | 9 (1.4)         | ▼ |
| Botswana                         | 9 (1.6)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 44 (2.5)        | ▲ |
| North Carolina, US               | 40 (3.5)        | ▲ |
| Ontario, Canada                  | 37 (2.4)        | ▲ |
| Florida, US                      | 37 (2.9)        | ▲ |
| Dubai, UAE                       | 32 (1.8)        |   |
| Quebec, Canada                   | 22 (2.6)        | ▼ |
| Abu Dhabi, UAE                   | 17 (1.9)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_06B (S041013B): Use of rat incisors  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Finland                          | 54 (2.9)        | ▲ |
| Denmark                          | 52 (2.0)        | ▲ |
| Sweden                           | 48 (2.5)        | ▲ |
| Thailand                         | 47 (2.8)        | ▲ |
| Lithuania                        | 45 (2.4)        | ▲ |
| Norway                           | 43 (2.7)        | ▲ |
| Japan                            | 41 (1.7)        | ▲ |
| Kazakhstan                       | 40 (3.0)        | ▲ |
| Portugal                         | 39 (2.7)        | ▲ |
| Russian Federation               | 38 (2.2)        | ▲ |
| Romania                          | 34 (2.6)        | ▲ |
| Chinese Taipei                   | 33 (2.1)        | ▲ |
| Korea, Rep. of                   | 33 (1.8)        | ▲ |
| Serbia                           | 30 (2.2)        | ▲ |
| Hungary                          | 29 (1.8)        | ▲ |
| Italy                            | 29 (2.2)        | ▲ |
| Czech Republic                   | 27 (2.5)        |   |
| Slovenia                         | 26 (2.0)        |   |
| Austria                          | 24 (2.1)        |   |
| <b>International Avg.</b>        | <b>23 (0.3)</b> |   |
| Northern Ireland                 | 23 (2.0)        |   |
| Netherlands                      | 21 (1.6)        |   |
| Slovak Republic                  | 21 (1.8)        |   |
| Armenia                          | 21 (1.9)        |   |
| Ireland                          | 21 (3.4)        |   |
| Poland                           | 20 (2.0)        |   |
| Georgia                          | 20 (2.0)        |   |
| Chile                            | 19 (1.4)        | ▼ |
| England                          | 19 (2.2)        |   |
| Turkey                           | 19 (1.3)        | ▼ |
| Croatia                          | 19 (1.7)        | ▼ |
| Germany                          | 18 (1.7)        | ▼ |
| Spain                            | 18 (1.9)        | ▼ |
| Bahrain                          | 17 (1.8)        | ▼ |
| Iran, Islamic Rep. of            | 17 (1.8)        | ▼ |
| New Zealand                      | 16 (1.6)        | ▼ |
| Australia                        | 15 (1.4)        | ▼ |
| Belgium (Flemish)                | 15 (1.5)        | ▼ |
| Tunisia                          | 14 (1.8)        | ▼ |
| Azerbaijan                       | 14 (1.8)        | ▼ |
| Singapore                        | 13 (1.1)        | ▼ |
| United States                    | 13 (1.0)        | ▼ |
| Malta                            | 12 (1.5)        | ▼ |
| United Arab Emirates             | 4 (0.5)         | ▼ |
| Oman                             | 4 (0.8)         | ▼ |
| Qatar                            | 4 (1.0)         | ▼ |
| Hong Kong SAR                    | 2 (0.6)         | ▼ |
| Saudi Arabia                     | 2 (0.7)         | ▼ |
| Kuwait                           | 1 (0.4)         | ▼ |
| Morocco                          | 1 (0.3)         | ▼ |
| Yemen                            | 0 (0.1)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 5 (0.9)         | ▼ |
| Yemen                            | 3 (0.8)         | ▼ |
| Botswana                         | 1 (0.3)         | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 15 (2.3)        | ▼ |
| Quebec, Canada                   | 15 (2.0)        | ▼ |
| North Carolina, US               | 13 (2.4)        | ▼ |
| Florida, US                      | 13 (1.8)        | ▼ |
| Ontario, Canada                  | 12 (1.4)        | ▼ |
| Dubai, UAE                       | 6 (0.9)         | ▼ |
| Abu Dhabi, UAE                   | 3 (0.7)         | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_07 (S041067): Type of energy that runs objects  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Finland                          | 85 (1.7) ▲      |
| Japan                            | 85 (1.6) ▲      |
| Korea, Rep. of                   | 83 (1.7) ▲      |
| Northern Ireland                 | 80 (2.5) ▲      |
| England                          | 78 (2.2) ▲      |
| Russian Federation               | 78 (2.0) ▲      |
| Chinese Taipei                   | 76 (1.8) ▲      |
| Lithuania                        | 76 (1.9) ▲      |
| Belgium (Flemish)                | 75 (1.7) ▲      |
| Hungary                          | 75 (1.8) ▲      |
| Romania                          | 74 (2.7) ▲      |
| Portugal                         | 73 (2.7) ▲      |
| Netherlands                      | 73 (2.4) ▲      |
| Thailand                         | 72 (2.5) ▲      |
| Spain                            | 69 (2.1) ▲      |
| Poland                           | 68 (2.2) ▲      |
| Austria                          | 68 (2.4) ▲      |
| Sweden                           | 67 (2.4) ▲      |
| Denmark                          | 67 (2.2) ▲      |
| Croatia                          | 64 (1.9) ▲      |
| Hong Kong SAR                    | 64 (2.2) ▲      |
| Serbia                           | 64 (2.4)        |
| Slovenia                         | 63 (2.1)        |
| Kazakhstan                       | 63 (2.8)        |
| Ireland                          | 62 (2.6)        |
| Germany                          | 62 (2.1)        |
| Singapore                        | 62 (1.9)        |
| Australia                        | 62 (1.8)        |
| United States                    | 61 (1.8)        |
| Turkey                           | 61 (2.1)        |
| Czech Republic                   | 60 (2.7)        |
| Slovak Republic                  | 60 (2.6)        |
| <b>International Avg.</b>        | <b>59 (0.3)</b> |
| Georgia                          | 59 (2.6)        |
| Italy                            | 58 (2.5)        |
| Norway                           | 55 (2.2)        |
| Bahrain                          | 55 (2.0) ▼      |
| Chile                            | 52 (1.9) ▼      |
| Saudi Arabia                     | 51 (2.4) ▼      |
| Azerbaijan                       | 48 (2.9) ▼      |
| Tunisia                          | 45 (2.1) ▼      |
| Iran, Islamic Rep. of            | 45 (2.1) ▼      |
| New Zealand                      | 43 (2.3) ▼      |
| Armenia                          | 43 (2.3) ▼      |
| United Arab Emirates             | 40 (1.5) ▼      |
| Malta                            | 38 (2.0) ▼      |
| Qatar                            | 32 (2.4) ▼      |
| Kuwait                           | 21 (1.8) ▼      |
| Oman                             | 20 (1.3) ▼      |
| Morocco                          | 16 (1.9) ▼      |
| Yemen                            | 12 (1.6) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 55 (3.6)        |
| Yemen                            | 35 (2.1) ▼      |
| Botswana                         | 34 (2.7) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Quebec, Canada                   | 73 (2.2) ▲      |
| Florida, US                      | 63 (2.9)        |
| Ontario, Canada                  | 60 (2.2)        |
| North Carolina, US               | 60 (3.0)        |
| Alberta, Canada                  | 60 (2.3)        |
| Dubai, UAE                       | 44 (1.8) ▼      |
| Abu Dhabi, UAE                   | 39 (2.7) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_08 (S041305): A balance and four cubes  
Multiple Choice (Key is A)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Singapore                        | 74 (1.5) ▲      |
| Chinese Taipei                   | 70 (1.9) ▲      |
| Korea, Rep. of                   | 70 (1.9) ▲      |
| Hong Kong SAR                    | 68 (2.4) ▲      |
| Japan                            | 66 (1.8) ▲      |
| Portugal                         | 57 (3.4) ▲      |
| Ireland                          | 54 (2.2) ▲      |
| Finland                          | 53 (2.2) ▲      |
| Netherlands                      | 52 (2.5) ▲      |
| Australia                        | 50 (2.2) ▲      |
| Norway                           | 50 (2.6) ▲      |
| United States                    | 50 (1.7) ▲      |
| Northern Ireland                 | 49 (2.7)        |
| Russian Federation               | 49 (2.4) ▲      |
| Belgium (Flemish)                | 49 (2.3) ▲      |
| Serbia                           | 49 (2.8)        |
| Kazakhstan                       | 49 (2.7)        |
| Germany                          | 49 (2.3)        |
| England                          | 48 (2.7)        |
| New Zealand                      | 47 (2.2)        |
| Lithuania                        | 47 (2.5)        |
| Austria                          | 46 (2.8)        |
| Croatia                          | 45 (2.3)        |
| Italy                            | 45 (2.2)        |
| <b>International Avg.</b>        | <b>44 (0.3)</b> |
| Romania                          | 44 (2.2)        |
| Sweden                           | 44 (2.3)        |
| Denmark                          | 44 (2.3)        |
| Turkey                           | 44 (2.1)        |
| Spain                            | 44 (2.2)        |
| Slovak Republic                  | 43 (1.9)        |
| Malta                            | 43 (2.4)        |
| Slovenia                         | 41 (2.2)        |
| Hungary                          | 40 (1.9) ▼      |
| Bahrain                          | 40 (1.9) ▼      |
| Czech Republic                   | 39 (2.5) ▼      |
| Qatar                            | 39 (2.1) ▼      |
| Thailand                         | 39 (2.5) ▼      |
| United Arab Emirates             | 37 (1.2) ▼      |
| Chile                            | 36 (1.9) ▼      |
| Iran, Islamic Rep. of            | 36 (2.5) ▼      |
| Azerbaijan                       | 35 (2.9) ▼      |
| Saudi Arabia                     | 35 (2.0) ▼      |
| Poland                           | 33 (1.9) ▼      |
| Georgia                          | 31 (2.9) ▼      |
| Oman                             | 31 (1.7) ▼      |
| Armenia                          | 30 (2.1) ▼      |
| Kuwait                           | 27 (2.1) ▼      |
| Morocco                          | 23 (2.0) ▼      |
| Yemen                            | 19 (1.6) ▼      |
| Tunisia                          | 18 (2.2) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 37 (2.9) ▼      |
| Yemen                            | 33 (2.1) ▼      |
| Botswana                         | 27 (2.1) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Florida, US                      | 50 (3.0)        |
| North Carolina, US               | 49 (3.4)        |
| Quebec, Canada                   | 48 (2.4)        |
| Ontario, Canada                  | 48 (2.1)        |
| Alberta, Canada                  | 48 (2.8)        |
| Dubai, UAE                       | 40 (2.2)        |
| Abu Dhabi, UAE                   | 36 (2.2) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_09 (S041048): Styrofoam-brick-apple weigh more  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Chinese Taipei                   | 74 (2.2) ▲      |
| Austria                          | 74 (1.9) ▲      |
| Serbia                           | 72 (2.3) ▲      |
| Russian Federation               | 71 (1.9) ▲      |
| Finland                          | 71 (2.3) ▲      |
| Korea, Rep. of                   | 68 (1.9) ▲      |
| Hungary                          | 68 (1.9) ▲      |
| Norway                           | 62 (2.4) ▲      |
| Portugal                         | 61 (2.4) ▲      |
| Poland                           | 58 (1.8) ▲      |
| Sweden                           | 56 (2.8) ▲      |
| Italy                            | 56 (2.0) ▲      |
| Czech Republic                   | 55 (2.9) ▲      |
| Lithuania                        | 54 (2.1) ▲      |
| Slovak Republic                  | 53 (2.2) ▲      |
| Singapore                        | 52 (2.0) ▲      |
| Germany                          | 51 (2.2) ▲      |
| Hong Kong SAR                    | 49 (2.2) ▲      |
| Croatia                          | 47 (1.8) ▲      |
| United States                    | 46 (1.5) ▲      |
| Denmark                          | 46 (2.4)        |
| Japan                            | 45 (2.3)        |
| Belgium (Flemish)                | 45 (2.0)        |
| Kazakhstan                       | 45 (2.5)        |
| Slovenia                         | 43 (2.1)        |
| Australia                        | 43 (2.2)        |
| Spain                            | 42 (2.1)        |
| <b>International Avg.</b>        | <b>42 (0.3)</b> |
| Chile                            | 41 (2.1)        |
| Netherlands                      | 40 (2.7)        |
| Northern Ireland                 | 40 (2.1)        |
| Ireland                          | 39 (3.4)        |
| England                          | 39 (2.7)        |
| New Zealand                      | 39 (2.2)        |
| Romania                          | 38 (2.5)        |
| Turkey                           | 36 (1.5) ▼      |
| Saudi Arabia                     | 35 (2.4) ▼      |
| Thailand                         | 30 (2.5) ▼      |
| Iran, Islamic Rep. of            | 24 (1.6) ▼      |
| Kuwait                           | 23 (1.7) ▼      |
| Oman                             | 21 (1.4) ▼      |
| United Arab Emirates             | 19 (1.0) ▼      |
| Azerbaijan                       | 19 (2.1) ▼      |
| Georgia                          | 19 (2.0) ▼      |
| Bahrain                          | 19 (1.9) ▼      |
| Malta                            | 19 (1.8) ▼      |
| Armenia                          | 18 (1.8) ▼      |
| Tunisia                          | 15 (1.5) ▼      |
| Qatar                            | 12 (1.8) ▼      |
| Yemen                            | 3 (0.6) ▼       |
| Morocco                          | 0 (0.2) ▼       |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 22 (2.9) ▼      |
| Yemen                            | 19 (1.9) ▼      |
| Botswana                         | 6 (1.0) ▼       |
| <b>Benchmarking Participants</b> |                 |
| Alberta, Canada                  | 52 (2.3) ▲      |
| Ontario, Canada                  | 51 (2.4) ▲      |
| Quebec, Canada                   | 51 (2.5) ▲      |
| North Carolina, US               | 49 (3.2) ▲      |
| Florida, US                      | 40 (2.4)        |
| Dubai, UAE                       | 24 (1.2) ▼      |
| Abu Dhabi, UAE                   | 18 (2.0) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_10 (S041110): Energy received from the sun  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Singapore                        | 82 (1.5)        | ▲ |
| Korea, Rep. of                   | 79 (1.7)        | ▲ |
| Slovak Republic                  | 75 (1.9)        | ▲ |
| Hong Kong SAR                    | 73 (1.9)        | ▲ |
| Russian Federation               | 73 (2.0)        | ▲ |
| Northern Ireland                 | 69 (2.4)        | ▲ |
| Netherlands                      | 69 (2.4)        | ▲ |
| Italy                            | 68 (1.8)        | ▲ |
| Romania                          | 68 (2.7)        | ▲ |
| Ireland                          | 68 (2.4)        | ▲ |
| England                          | 66 (2.6)        | ▲ |
| Austria                          | 64 (2.5)        | ▲ |
| Australia                        | 63 (2.3)        | ▲ |
| United States                    | 63 (1.4)        | ▲ |
| Kazakhstan                       | 62 (2.5)        | ▲ |
| Portugal                         | 62 (2.5)        | ▲ |
| Croatia                          | 62 (2.4)        | ▲ |
| Serbia                           | 61 (2.1)        | ▲ |
| Chinese Taipei                   | 61 (2.1)        | ▲ |
| Denmark                          | 61 (2.2)        | ▲ |
| Japan                            | 59 (2.0)        | ▲ |
| Czech Republic                   | 59 (2.5)        | ▲ |
| Georgia                          | 59 (2.6)        |   |
| Belgium (Flemish)                | 59 (1.9)        | ▲ |
| Norway                           | 57 (3.1)        |   |
| New Zealand                      | 56 (2.0)        |   |
| Turkey                           | 55 (1.3)        |   |
| Finland                          | 55 (2.5)        |   |
| International Avg.               | 54 (0.3)        |   |
| Hungary                          | 54 (2.0)        |   |
| Iran, Islamic Rep. of            | 54 (2.4)        |   |
| Slovenia                         | 53 (3.2)        |   |
| Chile                            | 53 (1.9)        |   |
| Lithuania                        | 53 (2.2)        |   |
| Thailand                         | 52 (2.3)        |   |
| Spain                            | 51 (2.3)        |   |
| Germany                          | 48 (2.1)        | ▼ |
| Bahrain                          | 47 (2.4)        | ▼ |
| Saudi Arabia                     | 47 (2.3)        | ▼ |
| United Arab Emirates             | 46 (1.4)        | ▼ |
| Poland                           | 45 (1.7)        | ▼ |
| Sweden                           | 44 (2.3)        | ▼ |
| Qatar                            | 40 (1.8)        | ▼ |
| Malta                            | 38 (2.3)        | ▼ |
| Azerbaijan                       | 37 (3.0)        | ▼ |
| Armenia                          | 35 (2.1)        | ▼ |
| Kuwait                           | 29 (1.9)        | ▼ |
| Tunisia                          | 29 (2.2)        | ▼ |
| Oman                             | 24 (1.4)        | ▼ |
| Yemen                            | 12 (1.3)        | ▼ |
| Morocco                          | 9 (1.7)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 42 (2.4)        | ▼ |
| Yemen                            | 40 (2.4)        | ▼ |
| Botswana                         | 31 (3.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 67 (2.6)        | ▲ |
| Alberta, Canada                  | 64 (2.3)        | ▲ |
| North Carolina, US               | 62 (3.0)        | ▲ |
| Ontario, Canada                  | 60 (2.0)        | ▲ |
| Quebec, Canada                   | 57 (2.2)        |   |
| Dubai, UAE                       | 56 (1.7)        |   |
| Abu Dhabi, UAE                   | 44 (2.5)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_11 (S041069): Shadow along which line  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Singapore                        | 87 (1.3)        | ▲ |
| Chinese Taipei                   | 83 (1.6)        | ▲ |
| Japan                            | 79 (1.7)        | ▲ |
| Korea, Rep. of                   | 77 (1.8)        | ▲ |
| Hong Kong SAR                    | 74 (1.6)        | ▲ |
| Finland                          | 70 (1.9)        | ▲ |
| Slovak Republic                  | 69 (2.4)        | ▲ |
| Lithuania                        | 69 (2.2)        | ▲ |
| Slovenia                         | 68 (2.3)        | ▲ |
| Hungary                          | 67 (2.1)        | ▲ |
| Russian Federation               | 67 (2.2)        | ▲ |
| Czech Republic                   | 63 (2.8)        |   |
| United States                    | 62 (1.6)        | ▲ |
| Germany                          | 62 (2.3)        |   |
| Belgium (Flemish)                | 62 (2.1)        | ▲ |
| Austria                          | 61 (2.1)        |   |
| Kazakhstan                       | 61 (2.7)        |   |
| Portugal                         | 61 (2.6)        |   |
| Netherlands                      | 60 (2.3)        |   |
| Serbia                           | 60 (2.8)        |   |
| Romania                          | 60 (2.8)        |   |
| Croatia                          | 59 (2.2)        |   |
| Sweden                           | 58 (2.4)        |   |
| England                          | 58 (2.3)        |   |
| Thailand                         | 58 (2.4)        |   |
| Australia                        | 57 (2.1)        |   |
| <b>International Avg.</b>        | <b>57 (0.3)</b> |   |
| Northern Ireland                 | 57 (2.1)        |   |
| New Zealand                      | 56 (1.9)        |   |
| Denmark                          | 56 (2.4)        |   |
| Ireland                          | 56 (2.1)        |   |
| Qatar                            | 55 (2.3)        |   |
| Spain                            | 54 (2.6)        |   |
| Chile                            | 53 (2.1)        | ▼ |
| Italy                            | 52 (2.6)        | ▼ |
| Saudi Arabia                     | 52 (2.7)        | ▼ |
| Bahrain                          | 52 (2.1)        | ▼ |
| Norway                           | 51 (2.6)        | ▼ |
| Iran, Islamic Rep. of            | 50 (2.2)        | ▼ |
| Poland                           | 49 (2.5)        | ▼ |
| Georgia                          | 49 (2.3)        | ▼ |
| United Arab Emirates             | 48 (1.1)        | ▼ |
| Azerbaijan                       | 47 (3.1)        | ▼ |
| Malta                            | 47 (2.1)        | ▼ |
| Turkey                           | 47 (1.6)        | ▼ |
| Morocco                          | 43 (2.2)        | ▼ |
| Oman                             | 42 (1.6)        | ▼ |
| Kuwait                           | 41 (1.9)        | ▼ |
| Armenia                          | 38 (2.3)        | ▼ |
| Tunisia                          | 33 (2.2)        | ▼ |
| Yemen                            | 30 (1.9)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 50 (3.2)        | ▼ |
| Yemen                            | 44 (2.5)        | ▼ |
| Botswana                         | 42 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 65 (2.4)        | ▲ |
| Ontario, Canada                  | 57 (2.4)        |   |
| North Carolina, US               | 56 (3.2)        |   |
| Florida, US                      | 54 (3.3)        |   |
| Dubai, UAE                       | 51 (1.9)        | ▼ |
| Quebec, Canada                   | 49 (2.3)        | ▼ |
| Abu Dhabi, UAE                   | 49 (2.4)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S06\_12 (S041100): Reason for direction river flows  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 81 (1.7)        | ▲ |
| Chinese Taipei                   | 77 (1.9)        | ▲ |
| Japan                            | 70 (1.8)        | ▲ |
| Hong Kong SAR                    | 67 (2.0)        | ▲ |
| Finland                          | 65 (2.3)        | ▲ |
| Sweden                           | 62 (2.2)        | ▲ |
| Singapore                        | 58 (1.8)        | ▲ |
| Russian Federation               | 57 (2.6)        | ▲ |
| Slovak Republic                  | 57 (2.2)        | ▲ |
| Australia                        | 57 (2.7)        | ▲ |
| Netherlands                      | 57 (2.3)        | ▲ |
| Romania                          | 56 (2.5)        | ▲ |
| Czech Republic                   | 56 (2.5)        | ▲ |
| Serbia                           | 55 (2.6)        | ▲ |
| Italy                            | 55 (2.3)        | ▲ |
| Ireland                          | 54 (3.6)        | ▲ |
| United States                    | 53 (1.3)        | ▲ |
| England                          | 53 (2.6)        | ▲ |
| Germany                          | 51 (2.3)        | ▲ |
| New Zealand                      | 51 (2.1)        | ▲ |
| Croatia                          | 51 (2.0)        | ▲ |
| Northern Ireland                 | 51 (3.0)        |   |
| Hungary                          | 51 (1.9)        | ▲ |
| Austria                          | 49 (2.5)        |   |
| Norway                           | 48 (3.5)        |   |
| Spain                            | 47 (2.1)        |   |
| Kazakhstan                       | 47 (2.4)        |   |
| Georgia                          | 46 (2.3)        |   |
| <b>International Avg.</b>        | <b>45 (0.3)</b> |   |
| Poland                           | 44 (2.1)        |   |
| Denmark                          | 44 (2.1)        |   |
| Belgium (Flemish)                | 44 (2.3)        |   |
| Portugal                         | 39 (2.8)        | ▼ |
| Armenia                          | 38 (2.3)        | ▼ |
| Turkey                           | 35 (1.7)        | ▼ |
| Lithuania                        | 35 (2.4)        | ▼ |
| Iran, Islamic Rep. of            | 34 (1.7)        | ▼ |
| Slovenia                         | 34 (2.7)        | ▼ |
| Saudi Arabia                     | 30 (2.7)        | ▼ |
| Thailand                         | 29 (2.7)        | ▼ |
| United Arab Emirates             | 28 (1.1)        | ▼ |
| Bahrain                          | 27 (2.1)        | ▼ |
| Malta                            | 26 (2.0)        | ▼ |
| Chile                            | 25 (1.7)        | ▼ |
| Kuwait                           | 25 (2.0)        | ▼ |
| Azerbaijan                       | 25 (2.9)        | ▼ |
| Qatar                            | 24 (2.0)        | ▼ |
| Yemen                            | 24 (1.9)        | ▼ |
| Oman                             | 24 (1.4)        | ▼ |
| Tunisia                          | 22 (2.0)        | ▼ |
| Morocco                          | 20 (1.7)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 37 (2.4)        | ▼ |
| Yemen                            | 26 (2.1)        | ▼ |
| Botswana                         | 18 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 58 (2.7)        | ▲ |
| North Carolina, US               | 54 (3.4)        | ▲ |
| Florida, US                      | 50 (2.4)        |   |
| Ontario, Canada                  | 47 (2.6)        |   |
| Quebec, Canada                   | 45 (2.6)        |   |
| Dubai, UAE                       | 35 (2.2)        | ▼ |
| Abu Dhabi, UAE                   | 24 (2.0)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

**S06\_13 (S041092): Drinking water comes from  
Multiple Choice (Key is D)**

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 88 (1.3)        | ▲ |
| Japan                            | 83 (1.4)        | ▲ |
| Russian Federation               | 82 (1.5)        | ▲ |
| Chinese Taipei                   | 76 (1.8)        | ▲ |
| Czech Republic                   | 75 (2.3)        | ▲ |
| Finland                          | 74 (2.1)        | ▲ |
| Sweden                           | 74 (2.2)        | ▲ |
| Hong Kong SAR                    | 73 (1.9)        | ▲ |
| Serbia                           | 73 (2.1)        | ▲ |
| Slovenia                         | 72 (1.9)        | ▲ |
| Hungary                          | 71 (1.9)        | ▲ |
| Singapore                        | 71 (1.5)        | ▲ |
| Austria                          | 68 (1.8)        | ▲ |
| Slovak Republic                  | 68 (2.0)        | ▲ |
| Croatia                          | 67 (2.0)        | ▲ |
| Netherlands                      | 66 (2.7)        | ▲ |
| United States                    | 65 (1.8)        | ▲ |
| Northern Ireland                 | 65 (2.8)        | ▲ |
| Norway                           | 64 (3.2)        | ▲ |
| England                          | 63 (2.4)        | ▲ |
| Spain                            | 62 (2.5)        | ▲ |
| Ireland                          | 61 (2.4)        | ▲ |
| Denmark                          | 61 (2.2)        |   |
| Malta                            | 60 (2.0)        |   |
| Germany                          | 58 (2.5)        |   |
| Australia                        | 57 (2.0)        |   |
| <b>International Avg.</b>        | <b>57 (0.3)</b> |   |
| Belgium (Flemish)                | 57 (2.1)        |   |
| New Zealand                      | 56 (2.1)        |   |
| Portugal                         | 55 (2.7)        |   |
| Chile                            | 55 (2.1)        |   |
| Saudi Arabia                     | 54 (2.4)        |   |
| Bahrain                          | 54 (2.4)        |   |
| Iran, Islamic Rep. of            | 50 (1.9)        | ▼ |
| United Arab Emirates             | 50 (1.1)        | ▼ |
| Georgia                          | 48 (2.4)        | ▼ |
| Qatar                            | 48 (2.2)        | ▼ |
| Oman                             | 48 (1.8)        | ▼ |
| Turkey                           | 45 (1.7)        | ▼ |
| Italy                            | 44 (2.2)        | ▼ |
| Poland                           | 43 (2.1)        | ▼ |
| Lithuania                        | 42 (2.2)        | ▼ |
| Thailand                         | 42 (2.7)        | ▼ |
| Kuwait                           | 41 (2.0)        | ▼ |
| Romania                          | 38 (2.5)        | ▼ |
| Morocco                          | 32 (2.0)        | ▼ |
| Kazakhstan                       | 31 (2.5)        | ▼ |
| Yemen                            | 30 (2.3)        | ▼ |
| Tunisia                          | 30 (2.1)        | ▼ |
| Armenia                          | 28 (2.0)        | ▼ |
| Azerbaijan                       | 21 (2.2)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 53 (2.4)        |   |
| Yemen                            | 41 (2.3)        | ▼ |
| Botswana                         | 21 (1.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 70 (2.5)        | ▲ |
| North Carolina, US               | 69 (2.3)        | ▲ |
| Alberta, Canada                  | 65 (2.3)        | ▲ |
| Quebec, Canada                   | 62 (2.2)        | ▲ |
| Ontario, Canada                  | 59 (2.1)        |   |
| Dubai, UAE                       | 52 (2.3)        | ▼ |
| Abu Dhabi, UAE                   | 51 (2.4)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_01 (S031254): Animal with young and adult forms  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Chinese Taipei                   | 86 (1.4)        | ▲ |
| Japan                            | 83 (1.4)        | ▲ |
| Korea, Rep. of                   | 79 (1.9)        | ▲ |
| Hungary                          | 78 (1.6)        | ▲ |
| Italy                            | 78 (1.8)        | ▲ |
| Singapore                        | 76 (1.7)        | ▲ |
| Russian Federation               | 74 (1.8)        | ▲ |
| Kazakhstan                       | 72 (2.2)        | ▲ |
| Slovenia                         | 72 (2.2)        | ▲ |
| Slovak Republic                  | 71 (2.1)        | ▲ |
| Hong Kong SAR                    | 68 (2.2)        | ▲ |
| Romania                          | 68 (2.7)        | ▲ |
| Czech Republic                   | 67 (2.7)        | ▲ |
| Portugal                         | 67 (3.0)        | ▲ |
| Finland                          | 65 (2.6)        | ▲ |
| Iran, Islamic Rep. of            | 62 (1.8)        | ▲ |
| Denmark                          | 57 (2.5)        |   |
| Belgium (Flemish)                | 57 (2.1)        |   |
| Georgia                          | 56 (2.4)        |   |
| Norway                           | 56 (3.2)        |   |
| Spain                            | 55 (2.4)        |   |
| <b>International Avg.</b>        | <b>54 (0.3)</b> |   |
| Ireland                          | 54 (3.4)        |   |
| Australia                        | 54 (2.6)        |   |
| England                          | 52 (1.9)        |   |
| Turkey                           | 52 (2.1)        |   |
| Austria                          | 50 (2.0)        | ▼ |
| Sweden                           | 50 (2.6)        |   |
| United States                    | 50 (1.3)        | ▼ |
| New Zealand                      | 49 (2.4)        | ▼ |
| Azerbaijan                       | 49 (2.6)        | ▼ |
| Saudi Arabia                     | 48 (2.3)        | ▼ |
| Chile                            | 47 (2.2)        | ▼ |
| Malta                            | 46 (2.3)        | ▼ |
| Poland                           | 45 (2.2)        | ▼ |
| Serbia                           | 45 (2.5)        | ▼ |
| Netherlands                      | 44 (2.3)        | ▼ |
| Germany                          | 44 (2.3)        | ▼ |
| United Arab Emirates             | 43 (1.6)        | ▼ |
| Qatar                            | 42 (2.3)        | ▼ |
| Armenia                          | 42 (2.2)        | ▼ |
| Northern Ireland                 | 41 (2.6)        | ▼ |
| Morocco                          | 39 (1.8)        | ▼ |
| Bahrain                          | 39 (2.3)        | ▼ |
| Croatia                          | 38 (2.2)        | ▼ |
| Thailand                         | 35 (2.2)        | ▼ |
| Yemen                            | 32 (2.0)        | ▼ |
| Oman                             | 31 (1.6)        | ▼ |
| Kuwait                           | 31 (1.6)        | ▼ |
| Tunisia                          | 28 (2.0)        | ▼ |
| Lithuania                        | - -             |   |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 49 (2.5)        | ▼ |
| Yemen                            | 35 (2.3)        | ▼ |
| Botswana                         | 29 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Alberta, Canada                  | 55 (2.4)        |   |
| Quebec, Canada                   | 54 (2.5)        |   |
| Ontario, Canada                  | 52 (2.2)        |   |
| North Carolina, US               | 51 (3.3)        |   |
| Florida, US                      | 47 (2.5)        | ▼ |
| Abu Dhabi, UAE                   | 42 (2.9)        | ▼ |
| Dubai, UAE                       | 41 (2.2)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_02 (S031266): Only female Siberian tigers left  
Multiple Choice (Key is D)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Korea, Rep. of                   | 88 (1.4) ▲      |
| Slovak Republic                  | 76 (2.4) ▲      |
| Russian Federation               | 75 (1.9) ▲      |
| Hungary                          | 74 (1.9) ▲      |
| Singapore                        | 74 (1.7) ▲      |
| Hong Kong SAR                    | 72 (2.0) ▲      |
| Sweden                           | 72 (2.2) ▲      |
| Finland                          | 71 (2.3) ▲      |
| Denmark                          | 69 (2.5) ▲      |
| Croatia                          | 67 (1.8) ▲      |
| Chinese Taipei                   | 67 (2.1) ▲      |
| Spain                            | 67 (2.1) ▲      |
| Slovenia                         | 65 (3.0) ▲      |
| Netherlands                      | 64 (2.5) ▲      |
| United States                    | 64 (1.4) ▲      |
| England                          | 63 (2.2) ▲      |
| Czech Republic                   | 62 (2.8) ▲      |
| Norway                           | 62 (2.7) ▲      |
| Poland                           | 61 (2.0) ▲      |
| Lithuania                        | 60 (2.7) ▲      |
| Australia                        | 60 (2.9) ▲      |
| Germany                          | 59 (1.9) ▲      |
| Romania                          | 58 (2.7)        |
| Thailand                         | 58 (2.4) ▲      |
| Serbia                           | 58 (2.3) ▲      |
| Austria                          | 56 (2.3)        |
| Italy                            | 56 (2.2)        |
| Japan                            | 56 (2.1)        |
| Northern Ireland                 | 56 (2.7)        |
| Ireland                          | 55 (3.6)        |
| Chile                            | 54 (2.1)        |
| <b>International Avg.</b>        | <b>53 (0.3)</b> |
| New Zealand                      | 52 (2.0)        |
| Portugal                         | 51 (2.6)        |
| Turkey                           | 49 (2.1) ▼      |
| Kazakhstan                       | 47 (2.9) ▼      |
| Belgium (Flemish)                | 47 (2.4) ▼      |
| Malta                            | 46 (2.4) ▼      |
| Georgia                          | 39 (2.3) ▼      |
| Armenia                          | 36 (2.4) ▼      |
| Azerbaijan                       | 36 (2.1) ▼      |
| Bahrain                          | 34 (1.9) ▼      |
| United Arab Emirates             | 32 (1.2) ▼      |
| Saudi Arabia                     | 32 (2.4) ▼      |
| Kuwait                           | 28 (2.1) ▼      |
| Qatar                            | 28 (2.4) ▼      |
| Iran, Islamic Rep. of            | 28 (1.9) ▼      |
| Oman                             | 24 (1.4) ▼      |
| Morocco                          | 22 (2.0) ▼      |
| Yemen                            | 20 (1.5) ▼      |
| Tunisia                          | 20 (1.8) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 58 (2.6)        |
| Yemen                            | 35 (2.2) ▼      |
| Botswana                         | 30 (2.1) ▼      |
| <b>Benchmarking Participants</b> |                 |
| North Carolina, US               | 70 (3.2) ▲      |
| Quebec, Canada                   | 65 (2.5) ▲      |
| Alberta, Canada                  | 58 (2.4)        |
| Florida, US                      | 58 (2.6)        |
| Ontario, Canada                  | 52 (2.3)        |
| Dubai, UAE                       | 37 (2.3) ▼      |
| Abu Dhabi, UAE                   | 29 (1.9) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_03 (S031233): Main features of four animals  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 88 (1.4)        | ▲ |
| Singapore                        | 83 (1.4)        | ▲ |
| Hungary                          | 80 (1.8)        | ▲ |
| Italy                            | 79 (1.9)        | ▲ |
| Denmark                          | 76 (1.8)        | ▲ |
| Slovak Republic                  | 75 (1.9)        | ▲ |
| Portugal                         | 74 (2.0)        | ▲ |
| Russian Federation               | 72 (2.5)        | ▲ |
| Japan                            | 70 (1.8)        | ▲ |
| Australia                        | 70 (2.0)        | ▲ |
| United States                    | 69 (1.3)        | ▲ |
| Chinese Taipei                   | 69 (2.0)        | ▲ |
| Hong Kong SAR                    | 69 (2.1)        | ▲ |
| England                          | 67 (2.4)        | ▲ |
| Belgium (Flemish)                | 66 (1.8)        | ▲ |
| Germany                          | 66 (2.3)        | ▲ |
| Northern Ireland                 | 66 (2.5)        | ▲ |
| Sweden                           | 65 (2.4)        | ▲ |
| Croatia                          | 65 (2.0)        | ▲ |
| Thailand                         | 64 (3.3)        |   |
| Spain                            | 64 (2.3)        | ▲ |
| Poland                           | 64 (1.9)        | ▲ |
| Finland                          | 64 (2.4)        | ▲ |
| Norway                           | 63 (2.2)        | ▲ |
| Czech Republic                   | 63 (2.5)        |   |
| Austria                          | 63 (2.3)        | ▲ |
| Lithuania                        | 63 (2.4)        | ▲ |
| Netherlands                      | 60 (2.5)        |   |
| Chile                            | 60 (2.2)        |   |
| New Zealand                      | 59 (1.9)        |   |
| Slovenia                         | 58 (2.5)        |   |
| <b>International Avg.</b>        | <b>58 (0.3)</b> |   |
| Ireland                          | 58 (2.0)        |   |
| Kazakhstan                       | 57 (2.8)        |   |
| Malta                            | 54 (2.1)        |   |
| Romania                          | 53 (2.9)        |   |
| Turkey                           | 53 (1.6)        | ▼ |
| Serbia                           | 51 (2.6)        | ▼ |
| Iran, Islamic Rep. of            | 50 (1.8)        | ▼ |
| Bahrain                          | 49 (2.5)        | ▼ |
| Azerbaijan                       | 47 (2.7)        | ▼ |
| United Arab Emirates             | 45 (1.2)        | ▼ |
| Georgia                          | 44 (2.5)        | ▼ |
| Armenia                          | 38 (2.6)        | ▼ |
| Qatar                            | 38 (2.3)        | ▼ |
| Saudi Arabia                     | 33 (2.6)        | ▼ |
| Oman                             | 31 (1.5)        | ▼ |
| Kuwait                           | 29 (1.6)        | ▼ |
| Tunisia                          | 26 (2.0)        | ▼ |
| Morocco                          | 16 (1.6)        | ▼ |
| Yemen                            | 14 (1.4)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 56 (3.1)        |   |
| Yemen                            | 36 (2.3)        | ▼ |
| Botswana                         | 29 (2.1)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| North Carolina, US               | 74 (3.6)        | ▲ |
| Florida, US                      | 72 (2.8)        | ▲ |
| Quebec, Canada                   | 68 (2.3)        | ▲ |
| Alberta, Canada                  | 66 (2.4)        | ▲ |
| Ontario, Canada                  | 63 (2.3)        | ▲ |
| Dubai, UAE                       | 48 (1.9)        | ▼ |
| Abu Dhabi, UAE                   | 41 (2.2)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_04 (S031204): Coarse & fine salt added to water  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Korea, Rep. of                   | 79 (1.8) ▲      |
| Japan                            | 60 (2.1) ▲      |
| Chinese Taipei                   | 58 (2.1) ▲      |
| United States                    | 56 (1.6) ▲      |
| Singapore                        | 54 (2.0) ▲      |
| Slovenia                         | 52 (2.3) ▲      |
| Serbia                           | 52 (2.2) ▲      |
| Italy                            | 51 (2.1) ▲      |
| Finland                          | 50 (3.0) ▲      |
| Germany                          | 47 (2.1) ▲      |
| Australia                        | 47 (2.7) ▲      |
| Denmark                          | 46 (2.4) ▲      |
| Turkey                           | 45 (2.0) ▲      |
| England                          | 45 (2.6) ▲      |
| Netherlands                      | 44 (2.8) ▲      |
| Croatia                          | 44 (2.2) ▲      |
| Sweden                           | 44 (2.4) ▲      |
| Portugal                         | 44 (2.3) ▲      |
| New Zealand                      | 42 (1.7) ▲      |
| Austria                          | 42 (2.0) ▲      |
| Chile                            | 42 (1.8) ▲      |
| Slovak Republic                  | 41 (2.8)        |
| Kazakhstan                       | 39 (2.8)        |
| Belgium (Flemish)                | 38 (2.2)        |
| Romania                          | 38 (2.5)        |
| Thailand                         | 38 (2.6)        |
| Ireland                          | 38 (2.6)        |
| Hong Kong SAR                    | 38 (2.6)        |
| Lithuania                        | 38 (1.8)        |
| Czech Republic                   | 37 (2.6)        |
| <b>International Avg.</b>        | <b>37 (0.3)</b> |
| Hungary                          | 37 (1.9)        |
| Northern Ireland                 | 35 (2.7)        |
| Russian Federation               | 33 (1.8)        |
| Poland                           | 33 (2.1)        |
| Saudi Arabia                     | 30 (2.8) ▼      |
| Spain                            | 28 (2.3) ▼      |
| Norway                           | 26 (2.7) ▼      |
| Iran, Islamic Rep. of            | 24 (1.7) ▼      |
| Oman                             | 23 (1.5) ▼      |
| Armenia                          | 22 (1.8) ▼      |
| Qatar                            | 22 (1.6) ▼      |
| Georgia                          | 22 (2.0) ▼      |
| Bahrain                          | 22 (1.4) ▼      |
| United Arab Emirates             | 21 (1.0) ▼      |
| Tunisia                          | 20 (1.9) ▼      |
| Azerbaijan                       | 19 (2.1) ▼      |
| Kuwait                           | 17 (1.9) ▼      |
| Malta                            | 12 (1.5) ▼      |
| Yemen                            | 10 (1.4) ▼      |
| Morocco                          | 5 (0.8) ▼       |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 27 (2.6) ▼      |
| Yemen                            | 24 (2.3) ▼      |
| Botswana                         | 20 (1.9) ▼      |
| <b>Benchmarking Participants</b> |                 |
| North Carolina, US               | 60 (3.5) ▲      |
| Ontario, Canada                  | 59 (2.2) ▲      |
| Alberta, Canada                  | 55 (2.3) ▲      |
| Florida, US                      | 51 (2.5) ▲      |
| Quebec, Canada                   | 49 (2.3) ▲      |
| Dubai, UAE                       | 30 (1.8) ▼      |
| Abu Dhabi, UAE                   | 16 (1.7) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_05 (S031273): Metal spoon and wooden spoon  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 96 (0.8)        | ▲ |
| Singapore                        | 89 (1.1)        | ▲ |
| Japan                            | 87 (1.2)        | ▲ |
| Hong Kong SAR                    | 86 (2.0)        | ▲ |
| Finland                          | 82 (2.0)        | ▲ |
| England                          | 72 (2.4)        | ▲ |
| United States                    | 70 (1.5)        | ▲ |
| Serbia                           | 68 (2.7)        | ▲ |
| Hungary                          | 68 (2.2)        | ▲ |
| Sweden                           | 66 (2.4)        | ▲ |
| Italy                            | 65 (2.4)        | ▲ |
| Australia                        | 65 (2.3)        | ▲ |
| Ireland                          | 65 (2.0)        | ▲ |
| Northern Ireland                 | 64 (2.5)        | ▲ |
| Russian Federation               | 63 (2.1)        | ▲ |
| Spain                            | 63 (2.6)        | ▲ |
| Germany                          | 62 (2.3)        | ▲ |
| Austria                          | 61 (2.1)        | ▲ |
| Chinese Taipei                   | 61 (2.2)        | ▲ |
| Slovenia                         | 58 (2.7)        | ▲ |
| Denmark                          | 57 (2.1)        | ▲ |
| <b>International Avg.</b>        | <b>56 (0.3)</b> |   |
| Poland                           | 55 (1.9)        |   |
| Portugal                         | 54 (2.6)        |   |
| Georgia                          | 54 (2.4)        |   |
| Romania                          | 54 (2.8)        |   |
| Thailand                         | 53 (2.6)        |   |
| Azerbaijan                       | 52 (3.1)        |   |
| Netherlands                      | 51 (2.4)        |   |
| Belgium (Flemish)                | 51 (2.1)        | ▼ |
| Turkey                           | 50 (1.8)        | ▼ |
| Kazakhstan                       | 49 (2.3)        | ▼ |
| Qatar                            | 49 (2.3)        | ▼ |
| Chile                            | 49 (2.0)        | ▼ |
| Lithuania                        | 47 (2.2)        | ▼ |
| New Zealand                      | 47 (2.2)        | ▼ |
| Tunisia                          | 47 (2.6)        | ▼ |
| Croatia                          | 46 (2.0)        | ▼ |
| Norway                           | 46 (3.5)        | ▼ |
| Czech Republic                   | 46 (2.6)        | ▼ |
| United Arab Emirates             | 44 (1.3)        | ▼ |
| Bahrain                          | 42 (2.2)        | ▼ |
| Saudi Arabia                     | 42 (2.5)        | ▼ |
| Slovak Republic                  | 42 (2.3)        | ▼ |
| Iran, Islamic Rep. of            | 42 (1.9)        | ▼ |
| Malta                            | 40 (2.3)        | ▼ |
| Oman                             | 36 (1.6)        | ▼ |
| Kuwait                           | 34 (1.9)        | ▼ |
| Morocco                          | 34 (1.8)        | ▼ |
| Armenia                          | 33 (2.5)        | ▼ |
| Yemen                            | 29 (1.9)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 48 (2.7)        | ▼ |
| Yemen                            | 47 (2.0)        | ▼ |
| Botswana                         | 27 (2.2)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 71 (2.0)        | ▲ |
| North Carolina, US               | 70 (1.9)        | ▲ |
| Alberta, Canada                  | 67 (2.5)        | ▲ |
| Ontario, Canada                  | 60 (2.3)        |   |
| Quebec, Canada                   | 51 (2.3)        | ▼ |
| Dubai, UAE                       | 49 (1.7)        | ▼ |
| Abu Dhabi, UAE                   | 42 (2.8)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_06 (S031299): Sunlight made up of colors  
Constructed Response (1 Point)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Singapore                        | 68 (1.5)        | ▲ |
| Serbia                           | 63 (2.4)        | ▲ |
| Romania                          | 62 (2.6)        | ▲ |
| Portugal                         | 54 (3.1)        | ▲ |
| Denmark                          | 53 (2.2)        | ▲ |
| Ireland                          | 52 (2.1)        | ▲ |
| United States                    | 51 (1.5)        | ▲ |
| Hong Kong SAR                    | 50 (2.5)        | ▲ |
| Croatia                          | 50 (2.4)        | ▲ |
| Finland                          | 49 (2.8)        | ▲ |
| Russian Federation               | 47 (2.4)        | ▲ |
| Spain                            | 45 (2.8)        | ▲ |
| Lithuania                        | 45 (2.3)        | ▲ |
| Belgium (Flemish)                | 45 (2.5)        | ▲ |
| Korea, Rep. of                   | 43 (1.8)        | ▲ |
| Italy                            | 43 (2.4)        | ▲ |
| Sweden                           | 42 (2.7)        |   |
| Germany                          | 42 (2.1)        | ▲ |
| Netherlands                      | 41 (2.4)        |   |
| Australia                        | 41 (2.5)        |   |
| Northern Ireland                 | 40 (2.9)        |   |
| Czech Republic                   | 39 (2.8)        |   |
| Slovak Republic                  | 39 (2.5)        |   |
| Bahrain                          | 39 (2.4)        |   |
| England                          | 39 (3.0)        |   |
| <b>International Avg.</b>        | <b>38 (0.3)</b> |   |
| New Zealand                      | 37 (2.2)        |   |
| Kazakhstan                       | 37 (2.4)        |   |
| Hungary                          | 37 (2.3)        |   |
| Chile                            | 37 (2.1)        |   |
| Chinese Taipei                   | 36 (1.8)        |   |
| Iran, Islamic Rep. of            | 35 (2.4)        |   |
| Turkey                           | 34 (1.9)        |   |
| Azerbaijan                       | 33 (3.0)        |   |
| Austria                          | 33 (2.2)        | ▼ |
| Slovenia                         | 33 (2.7)        |   |
| Norway                           | 32 (3.1)        |   |
| Oman                             | 31 (1.7)        | ▼ |
| Saudi Arabia                     | 31 (2.8)        | ▼ |
| Georgia                          | 30 (2.4)        | ▼ |
| Japan                            | 29 (2.2)        | ▼ |
| Malta                            | 29 (1.7)        | ▼ |
| United Arab Emirates             | 28 (1.4)        | ▼ |
| Qatar                            | 25 (1.7)        | ▼ |
| Thailand                         | 22 (2.7)        | ▼ |
| Poland                           | 22 (1.6)        | ▼ |
| Tunisia                          | 19 (1.6)        | ▼ |
| Armenia                          | 17 (1.8)        | ▼ |
| Kuwait                           | 16 (1.6)        | ▼ |
| Morocco                          | 13 (1.7)        | ▼ |
| Yemen                            | 5 (0.9)         | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 43 (2.8)        |   |
| Yemen                            | 25 (2.5)        | ▼ |
| Botswana                         | 10 (1.6)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Florida, US                      | 58 (3.0)        | ▲ |
| Alberta, Canada                  | 58 (2.8)        | ▲ |
| North Carolina, US               | 54 (4.3)        | ▲ |
| Ontario, Canada                  | 51 (2.4)        | ▲ |
| Quebec, Canada                   | 33 (2.0)        | ▼ |
| Dubai, UAE                       | 31 (2.0)        | ▼ |
| Abu Dhabi, UAE                   | 25 (2.4)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_07 (S031281): Why birds sit on their eggs  
Multiple Choice (Key is B)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Netherlands                      | 96 (1.1) ▲      |
| Finland                          | 96 (1.0) ▲      |
| Austria                          | 95 (0.9) ▲      |
| Czech Republic                   | 94 (1.1) ▲      |
| Belgium (Flemish)                | 94 (1.0) ▲      |
| United States                    | 94 (0.6) ▲      |
| Sweden                           | 93 (1.2) ▲      |
| Denmark                          | 93 (1.2) ▲      |
| Singapore                        | 93 (0.7) ▲      |
| Germany                          | 92 (1.2) ▲      |
| Slovenia                         | 92 (1.1) ▲      |
| Australia                        | 92 (1.1) ▲      |
| Ireland                          | 92 (1.4) ▲      |
| Norway                           | 91 (1.6) ▲      |
| Croatia                          | 91 (1.2) ▲      |
| Slovak Republic                  | 91 (1.4) ▲      |
| Northern Ireland                 | 91 (1.6) ▲      |
| Hungary                          | 89 (1.4) ▲      |
| Spain                            | 89 (1.3) ▲      |
| Russian Federation               | 89 (1.4) ▲      |
| England                          | 89 (1.7) ▲      |
| Poland                           | 88 (1.5) ▲      |
| Japan                            | 87 (1.3) ▲      |
| New Zealand                      | 87 (1.4) ▲      |
| Italy                            | 87 (1.7) ▲      |
| Serbia                           | 87 (1.8) ▲      |
| Chinese Taipei                   | 86 (1.5) ▲      |
| Portugal                         | 85 (1.5) ▲      |
| Korea, Rep. of                   | 85 (1.6) ▲      |
| Romania                          | 84 (2.0) ▲      |
| Hong Kong SAR                    | 84 (1.5) ▲      |
| Lithuania                        | 83 (1.8)        |
| Malta                            | 81 (1.7)        |
| Chile                            | 80 (1.7)        |
| Azerbaijan                       | 80 (1.9)        |
| <b>International Avg.</b>        | <b>79 (0.2)</b> |
| Georgia                          | 79 (2.2)        |
| Turkey                           | 77 (1.8)        |
| Kazakhstan                       | 70 (2.1) ▼      |
| Thailand                         | 69 (2.9) ▼      |
| Iran, Islamic Rep. of            | 67 (1.8) ▼      |
| Armenia                          | 66 (2.1) ▼      |
| United Arab Emirates             | 64 (1.1) ▼      |
| Bahrain                          | 59 (1.8) ▼      |
| Qatar                            | 57 (2.3) ▼      |
| Saudi Arabia                     | 54 (2.1) ▼      |
| Tunisia                          | 46 (2.5) ▼      |
| Oman                             | 43 (1.2) ▼      |
| Kuwait                           | 40 (2.4) ▼      |
| Morocco                          | 31 (2.7) ▼      |
| Yemen                            | 31 (2.0) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 77 (2.5)        |
| Yemen                            | 46 (2.2) ▼      |
| Botswana                         | 43 (2.5) ▼      |
| <b>Benchmarking Participants</b> |                 |
| North Carolina, US               | 95 (1.2) ▲      |
| Alberta, Canada                  | 93 (1.2) ▲      |
| Florida, US                      | 91 (1.6) ▲      |
| Quebec, Canada                   | 91 (1.5) ▲      |
| Ontario, Canada                  | 90 (1.2) ▲      |
| Dubai, UAE                       | 73 (1.5) ▼      |
| Abu Dhabi, UAE                   | 58 (2.1) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_08 (S031077): Object in circuit for bulb to glow  
Multiple Choice (Key is A)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Japan                            | 94 (1.1) ▲      |
| Chinese Taipei                   | 94 (1.1) ▲      |
| Singapore                        | 94 (1.0) ▲      |
| Austria                          | 89 (1.3) ▲      |
| Germany                          | 88 (1.4) ▲      |
| Slovak Republic                  | 87 (1.7) ▲      |
| Finland                          | 86 (1.8) ▲      |
| United States                    | 84 (1.2) ▲      |
| Hong Kong SAR                    | 84 (1.6) ▲      |
| England                          | 84 (1.7) ▲      |
| Korea, Rep. of                   | 83 (1.6) ▲      |
| Iran, Islamic Rep. of            | 82 (1.8) ▲      |
| Sweden                           | 79 (2.0) ▲      |
| Portugal                         | 79 (2.1) ▲      |
| Belgium (Flemish)                | 78 (1.8) ▲      |
| Czech Republic                   | 77 (2.2) ▲      |
| Slovenia                         | 76 (2.3) ▲      |
| Ireland                          | 76 (2.0) ▲      |
| Serbia                           | 76 (2.2) ▲      |
| Northern Ireland                 | 75 (2.2)        |
| Denmark                          | 75 (2.1)        |
| Malta                            | 75 (2.1)        |
| Romania                          | 74 (2.2)        |
| Poland                           | 74 (2.1)        |
| Lithuania                        | 74 (2.0)        |
| New Zealand                      | 74 (1.7)        |
| Australia                        | 74 (1.9)        |
| Hungary                          | 73 (2.1)        |
| Croatia                          | 73 (1.9)        |
| Russian Federation               | 72 (2.2)        |
| <b>International Avg.</b>        | <b>71 (0.3)</b> |
| Spain                            | 71 (2.2)        |
| Oman                             | 68 (1.8)        |
| Thailand                         | 68 (2.5)        |
| Norway                           | 67 (2.2)        |
| Turkey                           | 63 (1.5) ▼      |
| Kazakhstan                       | 62 (2.7) ▼      |
| Italy                            | 62 (2.7) ▼      |
| Netherlands                      | 62 (2.4) ▼      |
| Qatar                            | 61 (2.1) ▼      |
| United Arab Emirates             | 61 (1.4) ▼      |
| Armenia                          | 60 (2.4) ▼      |
| Chile                            | 59 (1.9) ▼      |
| Azerbaijan                       | 57 (3.3) ▼      |
| Bahrain                          | 57 (2.0) ▼      |
| Georgia                          | 56 (2.2) ▼      |
| Saudi Arabia                     | 53 (2.8) ▼      |
| Tunisia                          | 46 (2.6) ▼      |
| Morocco                          | 43 (2.3) ▼      |
| Yemen                            | 36 (1.9) ▼      |
| Kuwait                           | 34 (2.0) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 68 (2.1)        |
| Yemen                            | 59 (2.5) ▼      |
| Botswana                         | 59 (2.3) ▼      |
| <b>Benchmarking Participants</b> |                 |
| North Carolina, US               | 91 (1.8) ▲      |
| Florida, US                      | 80 (2.0) ▲      |
| Alberta, Canada                  | 78 (1.8) ▲      |
| Ontario, Canada                  | 76 (1.8) ▲      |
| Quebec, Canada                   | 71 (2.2)        |
| Dubai, UAE                       | 69 (2.3)        |
| Abu Dhabi, UAE                   | 58 (2.7) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_09 (S031311): Force that causes object to fall  
Multiple Choice (Key is B)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Finland                          | 85 (1.6)        | ▲ |
| Slovak Republic                  | 83 (1.6)        | ▲ |
| United States                    | 81 (1.2)        | ▲ |
| Hong Kong SAR                    | 80 (1.6)        | ▲ |
| England                          | 80 (2.3)        | ▲ |
| Australia                        | 79 (1.8)        | ▲ |
| Korea, Rep. of                   | 79 (1.9)        | ▲ |
| Chinese Taipei                   | 78 (1.6)        | ▲ |
| Denmark                          | 78 (1.7)        | ▲ |
| Netherlands                      | 73 (2.3)        | ▲ |
| Northern Ireland                 | 71 (2.3)        | ▲ |
| Ireland                          | 71 (3.3)        | ▲ |
| Sweden                           | 71 (2.2)        | ▲ |
| Turkey                           | 70 (2.3)        | ▲ |
| Spain                            | 70 (2.5)        | ▲ |
| Japan                            | 70 (1.7)        | ▲ |
| Singapore                        | 68 (1.7)        | ▲ |
| New Zealand                      | 66 (2.1)        | ▲ |
| Belgium (Flemish)                | 66 (2.3)        | ▲ |
| Norway                           | 65 (2.7)        |   |
| Germany                          | 65 (2.4)        |   |
| Bahrain                          | 65 (2.2)        |   |
| Poland                           | 63 (2.0)        |   |
| Romania                          | 63 (2.5)        |   |
| Saudi Arabia                     | 63 (2.6)        |   |
| Austria                          | 62 (2.0)        |   |
| Serbia                           | 62 (3.0)        |   |
| Hungary                          | 62 (2.1)        |   |
| Russian Federation               | 61 (2.6)        |   |
| <b>International Avg.</b>        | <b>61 (0.3)</b> |   |
| Italy                            | 60 (2.3)        |   |
| Georgia                          | 60 (2.6)        |   |
| Thailand                         | 59 (2.5)        |   |
| Kuwait                           | 58 (2.4)        |   |
| Chile                            | 57 (2.2)        |   |
| Slovenia                         | 56 (2.6)        |   |
| United Arab Emirates             | 56 (1.3)        | ▼ |
| Iran, Islamic Rep. of            | 56 (2.6)        |   |
| Portugal                         | 56 (2.8)        | ▼ |
| Czech Republic                   | 51 (2.9)        | ▼ |
| Croatia                          | 50 (2.2)        | ▼ |
| Malta                            | 49 (2.2)        | ▼ |
| Oman                             | 46 (1.7)        | ▼ |
| Qatar                            | 45 (2.1)        | ▼ |
| Azerbaijan                       | 45 (2.7)        | ▼ |
| Kazakhstan                       | 43 (2.6)        | ▼ |
| Yemen                            | 34 (2.0)        | ▼ |
| Tunisia                          | 34 (2.0)        | ▼ |
| Lithuania                        | 31 (2.0)        | ▼ |
| Armenia                          | 28 (2.1)        | ▼ |
| Morocco                          | 23 (1.8)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 57 (2.4)        |   |
| Yemen                            | 48 (2.5)        | ▼ |
| Botswana                         | 25 (2.3)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| Ontario, Canada                  | 81 (1.9)        | ▲ |
| Alberta, Canada                  | 80 (1.8)        | ▲ |
| Florida, US                      | 79 (2.2)        | ▲ |
| North Carolina, US               | 76 (3.3)        | ▲ |
| Quebec, Canada                   | 63 (2.7)        |   |
| Dubai, UAE                       | 60 (1.6)        |   |
| Abu Dhabi, UAE                   | 52 (2.8)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_10A (S031088A): Two ways to use air  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Croatia                          | 87 (1.5) ▲      |
| United States                    | 87 (0.9) ▲      |
| Ireland                          | 84 (1.7) ▲      |
| Korea, Rep. of                   | 84 (1.4) ▲      |
| Australia                        | 83 (1.6) ▲      |
| Russian Federation               | 83 (1.9) ▲      |
| New Zealand                      | 82 (1.7) ▲      |
| Singapore                        | 81 (1.5) ▲      |
| England                          | 81 (1.8) ▲      |
| Sweden                           | 81 (1.8) ▲      |
| Chinese Taipei                   | 80 (2.0) ▲      |
| Finland                          | 80 (2.2) ▲      |
| Italy                            | 80 (2.1) ▲      |
| Slovak Republic                  | 79 (1.9) ▲      |
| Serbia                           | 79 (2.1) ▲      |
| Northern Ireland                 | 79 (2.6) ▲      |
| Portugal                         | 78 (3.2) ▲      |
| Lithuania                        | 78 (1.9) ▲      |
| Belgium (Flemish)                | 78 (2.0) ▲      |
| Czech Republic                   | 77 (2.3) ▲      |
| Denmark                          | 77 (2.0) ▲      |
| Austria                          | 76 (2.3) ▲      |
| Hong Kong SAR                    | 76 (2.1) ▲      |
| Slovenia                         | 75 (2.1) ▲      |
| Netherlands                      | 74 (2.0) ▲      |
| Germany                          | 74 (1.8) ▲      |
| Kazakhstan                       | 72 (2.4)        |
| Norway                           | 70 (2.7)        |
| Poland                           | 70 (1.9)        |
| Japan                            | 69 (1.9)        |
| Romania                          | 68 (2.3)        |
| <b>International Avg.</b>        | <b>67 (0.3)</b> |
| Spain                            | 67 (2.4)        |
| Chile                            | 67 (1.7)        |
| Hungary                          | 63 (2.1)        |
| Turkey                           | 63 (1.8) ▼      |
| United Arab Emirates             | 62 (1.2) ▼      |
| Bahrain                          | 62 (2.1) ▼      |
| Thailand                         | 60 (2.8) ▼      |
| Saudi Arabia                     | 56 (2.6) ▼      |
| Iran, Islamic Rep. of            | 56 (1.9) ▼      |
| Malta                            | 55 (2.2) ▼      |
| Georgia                          | 54 (2.5) ▼      |
| Qatar                            | 50 (2.1) ▼      |
| Oman                             | 48 (1.7) ▼      |
| Kuwait                           | 45 (2.2) ▼      |
| Tunisia                          | 41 (2.5) ▼      |
| Armenia                          | 38 (2.0) ▼      |
| Azerbaijan                       | 28 (2.5) ▼      |
| Yemen                            | 15 (1.6) ▼      |
| Morocco                          | 14 (1.4) ▼      |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 65 (2.6)        |
| Yemen                            | 44 (2.4) ▼      |
| Botswana                         | 34 (2.6) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Alberta, Canada                  | 84 (1.7) ▲      |
| Florida, US                      | 83 (2.1) ▲      |
| Ontario, Canada                  | 82 (1.7) ▲      |
| North Carolina, US               | 81 (1.7) ▲      |
| Quebec, Canada                   | 77 (2.3) ▲      |
| Dubai, UAE                       | 65 (1.7)        |
| Abu Dhabi, UAE                   | 59 (2.3) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_10B (S031088B): Two ways to use air  
Constructed Response (1 Point)

| Country                          | Percent Correct |
|----------------------------------|-----------------|
| Korea, Rep. of                   | 39 (2.0) ▲      |
| Singapore                        | 35 (1.6) ▲      |
| Sweden                           | 33 (2.0) ▲      |
| Kazakhstan                       | 33 (2.7) ▲      |
| Chinese Taipei                   | 32 (2.1) ▲      |
| Finland                          | 32 (2.2) ▲      |
| Portugal                         | 30 (2.4) ▲      |
| Netherlands                      | 30 (2.4) ▲      |
| Romania                          | 30 (3.1) ▲      |
| Japan                            | 29 (2.0) ▲      |
| Russian Federation               | 29 (2.2) ▲      |
| Serbia                           | 28 (2.0) ▲      |
| Lithuania                        | 27 (2.2) ▲      |
| United States                    | 27 (1.6) ▲      |
| Italy                            | 27 (1.8) ▲      |
| Ireland                          | 26 (3.0) ▲      |
| New Zealand                      | 26 (1.9) ▲      |
| Denmark                          | 26 (2.0)        |
| Tunisia                          | 25 (1.9)        |
| Poland                           | 24 (1.6)        |
| Bahrain                          | 24 (2.5)        |
| Hong Kong SAR                    | 24 (1.5)        |
| Saudi Arabia                     | 23 (1.9)        |
| Belgium (Flemish)                | 23 (1.7)        |
| Slovak Republic                  | 22 (2.3)        |
| Norway                           | 22 (2.4)        |
| United Arab Emirates             | 22 (1.2)        |
| <b>International Avg.</b>        | <b>22 (0.3)</b> |
| Austria                          | 22 (2.0)        |
| Spain                            | 22 (2.2)        |
| Hungary                          | 22 (1.7)        |
| Slovenia                         | 21 (2.0)        |
| Czech Republic                   | 20 (1.9)        |
| Australia                        | 19 (1.8)        |
| Oman                             | 19 (1.1) ▼      |
| Chile                            | 18 (1.6) ▼      |
| Turkey                           | 18 (1.5) ▼      |
| Qatar                            | 18 (1.5) ▼      |
| Germany                          | 17 (1.8) ▼      |
| Northern Ireland                 | 17 (2.2) ▼      |
| Malta                            | 17 (1.6) ▼      |
| England                          | 15 (1.5) ▼      |
| Georgia                          | 13 (1.8) ▼      |
| Kuwait                           | 12 (1.6) ▼      |
| Iran, Islamic Rep. of            | 12 (1.2) ▼      |
| Croatia                          | 11 (1.5) ▼      |
| Thailand                         | 11 (1.2) ▼      |
| Azerbaijan                       | 10 (1.7) ▼      |
| Armenia                          | 9 (1.2) ▼       |
| Yemen                            | 7 (1.0) ▼       |
| Morocco                          | 4 (0.8) ▼       |
| <b>Sixth Grade Participants</b>  |                 |
| Honduras                         | 25 (3.0)        |
| Yemen                            | 14 (1.4) ▼      |
| Botswana                         | 11 (1.6) ▼      |
| <b>Benchmarking Participants</b> |                 |
| Florida, US                      | 27 (2.7)        |
| Alberta, Canada                  | 25 (2.0)        |
| North Carolina, US               | 24 (2.3)        |
| Dubai, UAE                       | 22 (1.8)        |
| Abu Dhabi, UAE                   | 21 (1.8)        |
| Ontario, Canada                  | 20 (1.8)        |
| Quebec, Canada                   | 16 (1.6) ▼      |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_10Z (S031088Z): Two ways to use air-DERIVED  
Constructed Response (2 Points)

| Country                          | Percent Full Credit | Percent at Least 1 Point |
|----------------------------------|---------------------|--------------------------|
| Korea, Rep. of                   | 34 (1.9) ●          | 89 (1.4) ●               |
| Sweden                           | 28 (2.2) ▲          | 86 (1.6) ▲               |
| Chinese Taipei                   | 28 (2.2) ▲          | 85 (1.8) ●               |
| Kazakhstan                       | 27 (2.6) ●          | 78 (2.2) ●               |
| Singapore                        | 26 (1.6) ●          | 89 (1.2) ●               |
| Russian Federation               | 26 (1.9) ●          | 86 (1.8) ●               |
| Finland                          | 26 (2.2) ▲          | 86 (1.7) ●               |
| Serbia                           | 24 (1.8) ▲          | 82 (2.0) ●               |
| Romania                          | 23 (2.9) ●          | 74 (2.3) ●               |
| Portugal                         | 22 (2.0) ●          | 86 (2.0) ▲               |
| Japan                            | 22 (1.7) ●          | 77 (1.7) ●               |
| New Zealand                      | 21 (1.9) ▲          | 86 (1.6) ●               |
| Lithuania                        | 21 (2.1) ●          | 84 (1.8) ●               |
| United States                    | 21 (1.5) ●          | 93 (0.6) ●               |
| Tunisia                          | 21 (1.7) ●          | 46 (2.6) ▼               |
| Netherlands                      | 20 (1.9) ●          | 84 (1.7) ●               |
| Ireland                          | 20 (2.8) ●          | 90 (1.3) ●               |
| Hong Kong SAR                    | 19 (1.7) ●          | 81 (1.8) ●               |
| Poland                           | 19 (1.5) ●          | 75 (1.9) ●               |
| Denmark                          | 19 (1.8) ●          | 84 (1.7) ●               |
| Slovak Republic                  | 18 (2.1) ●          | 83 (1.9) ●               |
| Bahrain                          | 18 (2.6) ●          | 68 (2.0) ▼               |
| Italy                            | 18 (1.6) ●          | 89 (1.5) ●               |
| <b>International Avg.</b>        | <b>16 (0.2)</b>     | <b>73 (0.3)</b>          |
| Hungary                          | 16 (1.7) ●          | 69 (1.9) ▼               |
| Czech Republic                   | 16 (1.8) ●          | 81 (1.9) ●               |
| Spain                            | 16 (1.9) ●          | 73 (2.3) ●               |
| Saudi Arabia                     | 15 (1.7) ●          | 64 (2.5) ▼               |
| Slovenia                         | 15 (1.7) ●          | 81 (2.3) ●               |
| Belgium (Flemish)                | 15 (1.6) ●          | 86 (1.7) ●               |
| United Arab Emirates             | 15 (1.0) ●          | 70 (1.1) ▼               |
| Austria                          | 14 (1.8) ●          | 84 (1.8) ●               |
| Norway                           | 14 (1.9) ●          | 79 (2.5) ●               |
| Australia                        | 13 (1.4) ▼          | 89 (1.4) ●               |
| Oman                             | 12 (1.0) ▼          | 54 (1.8) ▼               |
| Turkey                           | 11 (1.0) ▼          | 69 (1.9) ●               |
| Chile                            | 11 (1.3) ▼          | 74 (1.7) ●               |
| Qatar                            | 11 (1.3) ▼          | 57 (2.0) ▼               |
| Germany                          | 10 (1.4) ▼          | 81 (1.4) ●               |
| Malta                            | 10 (1.3) ▼          | 62 (2.1) ▼               |
| Northern Ireland                 | 9 (1.6) ▼           | 86 (2.3) ●               |
| England                          | 9 (1.4) ▼           | 86 (1.8) ●               |
| Croatia                          | 9 (1.4) ▼           | 90 (1.3) ●               |
| Thailand                         | 9 (1.1) ▼           | 62 (2.9) ▼               |
| Kuwait                           | 8 (1.2) ▼           | 49 (2.5) ▼               |
| Georgia                          | 7 (1.4) ▼           | 60 (2.4) ▼               |
| Iran, Islamic Rep. of            | 7 (1.0) ▼           | 61 (2.1) ▼               |
| Azerbaijan                       | 6 (1.3) ▼           | 32 (2.9) ▼               |
| Armenia                          | 5 (0.8) ▼           | 42 (2.1) ▼               |
| Yemen                            | 5 (1.0) ▼           | 17 (1.6) ▼               |
| Morocco                          | 2 (0.6) ▼           | 16 (1.6) ▼               |
| <b>Sixth Grade Participants</b>  |                     |                          |
| Honduras                         | 15 (2.3) ●          | 76 (2.5) ●               |
| Yemen                            | 7 (1.4) ▼           | 38 (2.4) ▼               |
| Botswana                         | 7 (1.0) ▼           | 51 (2.4) ▼               |
| <b>Benchmarking Participants</b> |                     |                          |
| Alberta, Canada                  | 19 (1.7) ●          | 89 (1.5) ●               |
| Florida, US                      | 18 (1.7) ●          | 92 (1.6) ●               |
| Ontario, Canada                  | 15 (1.6) ●          | 86 (1.4) ●               |
| North Carolina, US               | 15 (2.0) ●          | 90 (1.7) ●               |
| Abu Dhabi, UAE                   | 15 (1.8) ●          | 66 (2.2) ▼               |
| Dubai, UAE                       | 13 (1.3) ▼          | 74 (1.8) ●               |
| Quebec, Canada                   | 9 (1.4) ▼           | 83 (2.1) ●               |

- Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2011

S07\_11 (S031389): Soil change due to natural causes  
Multiple Choice (Key is D)

| Country                          | Percent Correct |   |
|----------------------------------|-----------------|---|
| Korea, Rep. of                   | 63 (2.3)        | ▲ |
| Finland                          | 61 (2.2)        | ▲ |
| Russian Federation               | 60 (2.0)        | ▲ |
| Japan                            | 55 (2.1)        | ▲ |
| United States                    | 54 (1.6)        | ▲ |
| Kazakhstan                       | 53 (2.7)        | ▲ |
| Azerbaijan                       | 52 (2.9)        | ▲ |
| Slovak Republic                  | 51 (2.2)        | ▲ |
| Hungary                          | 51 (2.2)        | ▲ |
| Croatia                          | 48 (2.3)        | ▲ |
| Turkey                           | 48 (1.7)        | ▲ |
| Chinese Taipei                   | 48 (2.3)        | ▲ |
| Slovenia                         | 47 (2.6)        | ▲ |
| Poland                           | 45 (2.1)        | ▲ |
| Lithuania                        | 44 (2.2)        | ▲ |
| Australia                        | 44 (2.0)        | ▲ |
| Hong Kong SAR                    | 44 (2.1)        | ▲ |
| Italy                            | 43 (2.2)        | ▲ |
| Czech Republic                   | 41 (2.4)        |   |
| Sweden                           | 41 (2.4)        |   |
| Portugal                         | 40 (3.7)        |   |
| Singapore                        | 40 (1.7)        |   |
| England                          | 39 (2.5)        |   |
| <b>International Avg.</b>        | <b>39 (0.3)</b> |   |
| Romania                          | 39 (2.7)        |   |
| Northern Ireland                 | 38 (2.5)        |   |
| Ireland                          | 37 (3.5)        |   |
| Belgium (Flemish)                | 37 (2.1)        |   |
| New Zealand                      | 36 (1.8)        |   |
| United Arab Emirates             | 36 (1.2)        |   |
| Austria                          | 36 (2.3)        |   |
| Denmark                          | 35 (2.1)        |   |
| Georgia                          | 35 (2.6)        |   |
| Serbia                           | 34 (2.1)        | ▼ |
| Saudi Arabia                     | 34 (2.4)        | ▼ |
| Netherlands                      | 33 (2.2)        | ▼ |
| Oman                             | 32 (1.4)        | ▼ |
| Iran, Islamic Rep. of            | 31 (1.8)        | ▼ |
| Thailand                         | 30 (2.4)        | ▼ |
| Spain                            | 30 (2.0)        | ▼ |
| Bahrain                          | 29 (1.9)        | ▼ |
| Armenia                          | 29 (2.3)        | ▼ |
| Chile                            | 28 (1.5)        | ▼ |
| Norway                           | 28 (2.4)        | ▼ |
| Malta                            | 27 (2.0)        | ▼ |
| Germany                          | 26 (1.8)        | ▼ |
| Qatar                            | 26 (2.7)        | ▼ |
| Kuwait                           | 22 (1.7)        | ▼ |
| Morocco                          | 21 (1.7)        | ▼ |
| Yemen                            | 19 (1.6)        | ▼ |
| Tunisia                          | 19 (1.6)        | ▼ |
| <b>Sixth Grade Participants</b>  |                 |   |
| Honduras                         | 34 (2.2)        | ▼ |
| Yemen                            | 27 (1.8)        | ▼ |
| Botswana                         | 23 (2.5)        | ▼ |
| <b>Benchmarking Participants</b> |                 |   |
| North Carolina, US               | 51 (3.3)        | ▲ |
| Florida, US                      | 48 (3.3)        | ▲ |
| Ontario, Canada                  | 43 (2.1)        | ▲ |
| Alberta, Canada                  | 43 (2.8)        |   |
| Dubai, UAE                       | 39 (2.4)        |   |
| Abu Dhabi, UAE                   | 34 (2.1)        | ▼ |
| Quebec, Canada                   | 29 (2.1)        | ▼ |

- ▲ Percent significantly higher than international average
- ▼ Percent significantly lower than international average

( ) Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

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