

## Appendix D.2: Percentiles of Science Achievement

Country	5 <sup>th</sup> Percentile	10 <sup>th</sup> Percentile	25 <sup>th</sup> Percentile	50 <sup>th</sup> Percentile	75 <sup>th</sup> Percentile	90 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile
Albania	341 (10.5)	378 (7.7)	437 (5.2)	495 (3.7)	549 (3.5)	592 (3.4)	619 (4.7)
Armenia	336 (6.1)	364 (6.2)	415 (4.3)	469 (3.3)	520 (3.6)	564 (4.5)	590 (5.2)
Australia	389 (6.0)	427 (4.4)	484 (2.8)	538 (3.2)	587 (2.4)	629 (3.6)	653 (4.3)
Austria	394 (6.0)	424 (4.2)	474 (3.2)	526 (2.9)	575 (3.5)	614 (2.5)	636 (4.2)
Azerbaijan	260 (10.3)	309 (6.9)	371 (4.0)	434 (3.5)	492 (3.3)	542 (3.3)	569 (4.5)
Bahrain	329 (7.7)	368 (6.3)	432 (4.6)	498 (3.4)	557 (3.9)	606 (4.0)	635 (4.6)
Belgium (Flemish)	384 (3.6)	412 (3.8)	458 (2.8)	504 (2.8)	548 (2.5)	584 (2.7)	605 (3.4)
Bosnia and Herzegovina	321 (7.4)	355 (4.8)	408 (3.7)	463 (3.0)	514 (2.9)	556 (3.6)	580 (4.5)
Bulgaria	326 (14.0)	381 (10.8)	460 (8.1)	536 (5.2)	595 (4.2)	641 (3.4)	666 (3.4)
Canada	401 (3.5)	429 (3.0)	476 (2.8)	526 (2.1)	573 (2.6)	613 (2.6)	637 (2.5)
Chile	343 (5.8)	370 (4.4)	419 (3.7)	470 (4.1)	522 (2.5)	564 (2.9)	589 (3.3)
Chinese Taipei	444 (4.7)	471 (4.4)	516 (2.7)	562 (2.0)	604 (1.9)	639 (2.7)	659 (4.1)
Croatia	424 (5.2)	448 (4.5)	485 (3.3)	525 (3.0)	565 (2.3)	599 (3.4)	618 (4.3)
Cyprus	381 (5.3)	412 (3.7)	463 (3.4)	515 (3.6)	563 (3.2)	606 (4.3)	630 (4.5)
Czech Republic	414 (5.1)	443 (4.3)	490 (3.4)	538 (3.5)	582 (2.2)	619 (3.2)	640 (3.2)
Denmark	405 (6.6)	433 (3.4)	478 (3.1)	525 (2.8)	569 (2.7)	607 (4.0)	629 (3.4)
England	413 (6.8)	444 (4.5)	491 (3.3)	540 (2.7)	587 (3.3)	626 (4.6)	648 (4.8)
Finland	429 (6.9)	464 (4.5)	513 (3.1)	559 (1.9)	602 (2.8)	640 (3.0)	662 (3.3)
France	351 (6.1)	382 (5.0)	435 (4.6)	493 (3.6)	544 (2.9)	583 (3.4)	608 (3.5)
Georgia	307 (10.0)	344 (7.4)	400 (5.0)	459 (4.6)	512 (3.6)	556 (4.1)	582 (5.1)
Germany	383 (4.1)	416 (4.3)	468 (3.4)	524 (3.2)	573 (2.7)	613 (2.4)	634 (4.8)
Hong Kong SAR	408 (6.5)	438 (5.3)	486 (4.0)	535 (3.8)	580 (3.2)	620 (4.0)	643 (4.1)
Hungary	395 (5.6)	425 (5.0)	479 (3.9)	535 (2.8)	584 (3.2)	624 (2.5)	647 (3.2)
Iran, Islamic Rep. of	265 (10.4)	306 (7.0)	377 (6.0)	450 (4.7)	511 (3.9)	561 (3.4)	587 (4.4)
Ireland	393 (7.1)	427 (5.4)	481 (4.8)	534 (3.5)	580 (3.2)	620 (2.8)	643 (4.5)
Italy	400 (5.7)	424 (4.6)	467 (3.1)	512 (3.1)	555 (3.7)	592 (4.1)	615 (7.0)
Japan	442 (4.5)	473 (3.8)	519 (2.7)	566 (1.9)	609 (2.1)	645 (2.7)	668 (3.4)
Kazakhstan	373 (4.5)	397 (3.4)	441 (4.3)	492 (3.2)	544 (4.0)	595 (6.3)	625 (6.4)
Korea, Rep. of	474 (7.0)	504 (4.2)	545 (3.2)	590 (2.3)	633 (2.3)	671 (3.1)	693 (4.1)
Kosovo	260 (8.1)	298 (6.5)	358 (4.4)	419 (4.0)	474 (3.5)	520 (4.2)	545 (4.7)
Kuwait	181 (9.6)	226 (7.5)	307 (7.6)	398 (7.4)	482 (6.9)	548 (8.3)	582 (7.4)
Latvia	432 (6.1)	458 (3.9)	501 (3.5)	546 (2.5)	585 (2.1)	619 (3.1)	639 (2.4)
Lithuania	414 (6.0)	443 (4.3)	492 (3.4)	542 (2.9)	588 (2.2)	628 (3.2)	651 (4.7)
Malta	344 (4.4)	382 (5.3)	443 (2.5)	504 (2.1)	555 (1.8)	598 (2.4)	623 (2.8)
Montenegro	292 (5.4)	336 (5.5)	401 (3.4)	461 (3.4)	516 (2.9)	558 (2.5)	582 (3.4)
Morocco	172 (8.8)	216 (6.8)	291 (6.8)	375 (6.6)	458 (7.2)	531 (9.5)	571 (10.7)
Netherlands	407 (5.4)	434 (4.3)	476 (3.9)	522 (3.3)	564 (2.8)	599 (3.8)	619 (5.7)
New Zealand	360 (4.0)	392 (4.5)	448 (3.2)	507 (2.6)	561 (2.5)	605 (3.4)	629 (3.7)
North Macedonia	244 (9.1)	287 (10.0)	359 (8.1)	432 (8.8)	501 (6.4)	554 (6.7)	583 (5.3)
Northern Ireland	392 (7.0)	424 (4.1)	473 (3.3)	524 (3.0)	568 (2.8)	606 (3.7)	627 (4.7)
Norway (5)	422 (5.8)	451 (4.5)	497 (3.4)	543 (2.6)	586 (2.4)	622 (2.3)	643 (3.5)
Oman	234 (6.3)	278 (4.8)	355 (4.4)	441 (4.0)	518 (4.8)	582 (6.4)	619 (7.7)
Pakistan	83 (13.4)	125 (11.7)	197 (13.6)	288 (19.3)	385 (15.5)	457 (11.8)	496 (11.4)
Philippines	59 (7.2)	93 (8.1)	158 (8.1)	239 (8.1)	333 (9.3)	418 (10.3)	470 (9.3)
Poland	401 (6.6)	435 (4.6)	484 (3.2)	536 (3.3)	582 (3.0)	620 (3.6)	643 (5.1)
Portugal	391 (3.1)	416 (4.2)	459 (3.5)	507 (3.3)	551 (2.7)	587 (2.7)	608 (2.9)
Qatar	271 (7.2)	308 (6.5)	376 (5.0)	456 (5.6)	526 (5.0)	581 (4.3)	611 (5.2)
Russian Federation	457 (7.3)	484 (4.4)	526 (3.5)	570 (3.1)	611 (2.9)	646 (3.1)	666 (4.6)
Saudi Arabia	205 (7.3)	248 (7.6)	327 (5.4)	410 (4.5)	484 (3.2)	540 (3.8)	571 (4.7)
Serbia	368 (11.8)	412 (7.0)	471 (4.3)	525 (3.3)	571 (3.3)	613 (3.7)	637 (3.8)
Singapore	454 (6.3)	493 (5.8)	548 (4.5)	602 (3.7)	649 (3.3)	687 (3.2)	708 (3.7)
Slovak Republic	367 (13.8)	415 (10.0)	479 (4.4)	531 (3.1)	575 (2.6)	612 (3.8)	634 (4.1)
South Africa (5)	129 (4.3)	163 (4.7)	225 (5.0)	311 (6.6)	414 (7.4)	510 (8.7)	563 (7.9)
Spain	394 (4.8)	422 (4.8)	467 (2.8)	516 (2.2)	559 (2.0)	595 (2.8)	614 (2.3)
Sweden	409 (7.2)	439 (5.9)	490 (4.6)	541 (4.2)	588 (3.8)	629 (3.9)	652 (3.8)
Turkey (5)	350 (10.0)	401 (8.9)	475 (5.3)	538 (4.4)	591 (3.6)	631 (3.9)	653 (4.8)
United Arab Emirates	273 (2.5)	314 (2.9)	395 (2.8)	483 (2.6)	557 (2.2)	612 (1.9)	641 (2.1)
United States	387 (5.6)	426 (4.8)	486 (3.6)	546 (3.0)	598 (2.2)	641 (2.5)	664 (2.6)
<b>Benchmarking Participants</b>							
Ontario, Canada	397 (6.3)	426 (4.7)	474 (4.7)	527 (3.8)	577 (3.8)	617 (4.5)	641 (5.3)
Quebec, Canada	413 (5.3)	437 (4.2)	479 (4.4)	524 (3.4)	566 (3.2)	604 (3.8)	627 (4.7)
Moscow City, Russian Fed.	484 (5.8)	514 (4.6)	556 (2.7)	599 (2.2)	638 (2.3)	671 (3.5)	689 (3.8)
Madrid, Spain	417 (4.1)	442 (3.8)	484 (2.8)	526 (2.2)	565 (2.4)	599 (2.7)	618 (4.4)
Abu Dhabi, UAE	230 (4.1)	265 (3.6)	329 (4.0)	419 (3.2)	507 (3.3)	570 (3.7)	604 (3.3)
Dubai, UAE	389 (5.6)	429 (3.5)	492 (2.8)	554 (2.2)	605 (1.9)	646 (2.7)	671 (2.9)

Percentiles are defined in terms of percentages of students at or below a point on the scale.

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