

Exhibit 2.7: Summary of TIMSS 2019 International Benchmarks of Science Achievement

Advanced International Benchmark	
625	<i>Students communicate their understanding of life, physical, and Earth sciences and demonstrate some knowledge of the process of scientific inquiry.</i> Students demonstrate knowledge of characteristics and life processes of a variety of organisms. They can communicate understanding of relationships in ecosystems and interactions between organisms and their environment. They communicate understanding of properties and states of matter and physical and chemical changes. Students communicate understanding of Earth's physical characteristics, processes, and history and show knowledge of Earth's revolution and rotation.
High International Benchmark	
550	<i>Students communicate and apply knowledge of life, physical, and Earth sciences.</i> Students communicate knowledge of characteristics of plants, animals, and their life cycles, and apply knowledge of ecosystems and of humans' and organisms' interactions with their environment. Students demonstrate knowledge of states and properties of matter and of energy transfer in practical contexts, and show some understanding of forces and motion. Students know various facts about the Earth's physical characteristics and show basic understanding of the Earth-Moon-Sun system.
Intermediate International Benchmark	
475	<i>Students show knowledge and understanding of some aspects of science.</i> Students demonstrate some basic knowledge of plants and animals. They demonstrate knowledge about some properties of matter and some facts related to electricity, and can apply elementary knowledge of forces and motion. They show some understanding of Earth's physical characteristics.
Low International Benchmark	
400	<i>Students show limited understanding of scientific concepts and limited knowledge of foundational science facts.</i>