

Note: Alignment refers to content within the student expectation, not to three-dimensional instruction

Volume 1

Lesson Title	2010 & 2017 TEKS	2021 TEKS	Alignment
Periodic Table	2017: 8(5)(C)	Removed in 2021	Not aligned
Interpreting Chemical Formulas	2017: 8(5)(D)	7(6)(D): use the periodic table to identify the atoms and the number of each kind within a chemical formula;	Aligned
Kinetic and Potential Energy	2017: 6(8)(A)	6(8)(A): compare and contrast gravitational, elastic, and chemical potential energies with kinetic energy;	Partially aligned Does not include elastic potential and chemical potential energies
Calculating Speed	2017: 6(8)(C)	7(7)(A): calculate average speed using distance and time measurements from investigations;	Aligned
Seasons	2017: 8(7)(A)	6(9)(A): model and illustrate how the tilted Earth revolves around the Sun, causing changes in seasons; and	Aligned
Lunar Cycle	2010: 8(7)(B)	Removed in 2021	Not aligned
Crustal Features	2017: 8(9)(B)	7(10)(B): describe how plate tectonics causes ocean basin formation, earthquakes, mountain building, and volcanic eruptions, including supervolcanoes and hot spots.	Partially aligned Includes land features that are not listed in new 7(10)(B)

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Volume 1 (Continued)

Lesson Title	2010 & 2017 TEKS	2021 TEKS	Alignment
Topographic Maps	2017: 8(9)(C)	Removed in 2021	Not aligned
Classifying Organisms	2017: 6(12)(D)	<p>6(13)(B): identify and compare the basic characteristics of organisms, including prokaryotic and eukaryotic, unicellular and multicellular, and autotrophic and heterotrophic; and</p> <p>7(14)(B): describe the characteristics of the recognized kingdoms and their importance in ecosystems such as bacteria aiding digestion or fungi decomposing organic matter.</p>	<p>Partially aligned</p> <p>Task 1 addresses vocabulary identified in 6(13)(B) but also includes modes of reproduction</p> <p>Tasks 2 and 3 focus on characteristics of organisms in six recognized kingdoms but do not address importance of kingdoms in ecosystems</p>
Body System Dominoes	2010: 7(12)(B)	7(13)(A): identify and model the main functions of the systems of the human organism, including the circulatory, respiratory, skeletal, muscular, digestive, urinary, reproductive, integumentary, nervous, immune, and endocrine systems;	<p>Partially aligned</p> <p>Does not include immune system; uses “excretory system” rather than “urinary system”</p>

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Volume 2

Lesson Title	2010 & 2017 TEKS	2021 TEKS	Alignment
Atomic Structure	2017: 8(5)(A)	Removed in 2021	Not aligned
Properties of Elements	2017: 8(5)(B)	Removed in 2021	Not aligned
Changes in Motion	2017: 8(6)(A)	6(7)(B): calculate the net force on an object in a horizontal or vertical direction using diagrams and determine if the forces are balanced or unbalanced; and	Partially aligned Students do not calculate net force but do define balanced and unbalanced forces and describe changes in motion due to unbalanced forces
Force, Mass, and Acceleration	2017: 8(6)(C)	8(7)(A): calculate and analyze how the acceleration of an object is dependent upon the net force acting on the object and the mass of the object using Newton's Second Law of Motion; and	Aligned
Moon Data	2017: 8(7)(B)	Removed in 2021	Not aligned
Objects in Space	2017: 8(8)(A)	8(9)(A): describe the life cycle of stars and compare and classify stars using the Hertzsprung-Russell diagram; 8(9)(B): categorize galaxies as spiral, elliptical, and irregular and locate Earth's solar system within the Milky Way galaxy; and	Partially aligned Review activities focus on components of the universe, including stars, nebulae, galaxies, and solar systems. Task 3 provides opportunities to practice reading an H-R diagram. Life cycle of stars is not addressed

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Volume 2 (continued)

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Satellite Views	2017: 8(9)(C)	Removed in 2021	Not aligned
Watersheds	2017: 7(8)(C)	7(11)(A): analyze the beneficial and harmful influences of human activity on groundwater and surface water in a watershed; and	Partially aligned Review tasks focus on parts of the watershed and harmful influences of human activity; Includes a facilitation question about protecting watersheds but does not otherwise address beneficial influences of human activity.
Ecological Relationships	2010: 8(11)(A) 2017: <i>streamlined out</i>	6(12)(B): describe and give examples of predatory, competitive, and symbiotic relationships between organisms, including mutualism, parasitism, and commensalism; and	Partially aligned Tasks focus on producer-consumer, predator-prey, and parasite-host relationships. Mutualism and commensalism are not addressed.
Competition	2010: 8(11)(B) 2017: 8(11)(A)	6(12)(A): investigate how organisms and populations in an ecosystem depend on and may compete for biotic factors such as food and abiotic factors such as availability of light and water, range of temperatures, or soil composition;	Aligned