

Supporting STAAR Achievement for Grade 5 Science

Product Crosswalk for 2021 TEKS

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

| Lesson Title | 2010 & 2017 TEKS | 2021 TEKS | Alignment |
|---|--------------------------------|--|---|
| Lesson 1: Element Identities | 2017: 8(5)(B) | Removed in 2021 | Not aligned <i>Could be used to support IPC (7)(A) and (7)(B)</i> |
| Lesson 2: Figuring Out Formulas | 2017: 8(5)(D) | 7(6)(B): use the periodic table to identify the atoms and the number of each kind within a chemical formula; | Aligned |
| Lesson 3: Reacting Chemically | 2010: 8(5)(E) 2017: 8(5)(E) | <i>2010 8(5)(E) and 8(5)(F) were combined during streamlining in 2017. This lesson is aligned with the original 8(5)(E).</i> 6(6)(E): identify the formation of a new substance by using the evidence of a possible chemical change, including production of a gas, change in thermal energy, production of a precipitate, and color change. | Aligned |
| Lesson 4: A Change is Going to Come | 2017: 8(6)(A) | 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; | Partially aligned This lesson could be used to review net force and balanced and unbalanced forces (6(7)(B)) and to develop the idea that a net force always results in a change in motion before formally introducing the science term, acceleration. |
| Lesson 5: Moving Right Along | 2017: 8(6)(C) | 8(7)(B): investigate and describe how Newton's three laws of motion act simultaneously within systems such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches. | Aligned |

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| Lesson 6: It's Just a Phase | 2017: 8(7)(B) | Removed in 2021 | Not aligned |
| Lesson 7: Trekking through the Universe | 2017: 8(8)(A) | <p>8(9)(A): describe the life cycle of stars and compare and classify stars using the Hertzsprung-Russell diagram</p> <p>8(9)(B): categorize galaxies as spiral, elliptical, and irregular and locate Earth's solar system within the Milky Way galaxy; and</p> | <p>Partially aligned</p> <ul style="list-style-type: none"> Engage, Explore, and Explain focus on components of the universe, including galaxies, nebulae, and types of stars. Elaborate provides an opportunity to practice analyzing an H-R Diagram |
| Lesson 8: Land over Time | 2017: 8(9)(C) | Removed in 2021 | Not aligned |
| Lesson 9: Dependence and Competition | <p>2010: 8(11)(B)</p> <p>2017: 8(11)(A)</p> | 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 |
| Lesson 10: Who's a Survivor? | <p>2010: 8(11)(C)</p> <p>2017: 8(11)(B)</p> | <p>6(13)(C): describe how variations within a population can be an advantage or disadvantage to the survival of a population as environments change.</p> <p>7(13)(D): describe and give examples of how natural and artificial selection change the occurrence of traits in a population over generations.</p> | <p>Partially aligned</p> <p>This lesson models how different traits within a population can be an advantage or disadvantage depending on the environment.</p> <ul style="list-style-type: none"> Engage, Explore, and Explain are aligned with 6(13)(C). Elaborate may go beyond the scope of 6(13)(C), but it provides a foundation for understanding natural selection, 7(13)(D). |