

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: Density	2017: 5(5)(A)	5(6)(A): compare and contrast matter based on measurable, testable, or observable physical properties, including mass, magnetism, relative density (sinking and floating using water as a reference point), physical state (solid, liquid, gas), volume, solubility in water, and the ability to conduct or insulate thermal energy and electric energy;	Partially aligned <ul style="list-style-type: none"> Engage is aligned. Explore and Explain are partially aligned because various liquids are used in a density column with objects sinking or floating in them. The TEKS focus solely on whether objects sink or float in water. Elaborate is aligned. Evaluate is partially aligned because question 2 focuses on liquids other than water and question 3 may or may not involve water.
Lesson 2: Solubility	2017:5(5)(A)	5(6)(A): compare and contrast matter based on measurable, testable, or observable physical properties, including mass, magnetism, relative density (sinking and floating using water as a reference point), physical state (solid, liquid, gas), volume, solubility in water, and the ability to conduct or insulate thermal energy and electric energy;	Aligned
Lesson 3: Insulators and Conductors	2017: 5(5)(A)	5(6)(A): compare and contrast matter based on measurable, testable, or observable physical properties, including mass, magnetism, relative density (sinking and floating using water as a reference point), physical state (solid, liquid, gas), volume, solubility in water, and the ability to conduct or insulate thermal energy and electric energy;	Aligned
Lesson 4: Uses of Energy	2017: 5(6)(A)	Removed in 2021	Not aligned

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Lesson 5: Electrical Energy	2017: 5(6)(B)	5(8)(B): demonstrate that electrical energy in complete circuits can be transformed into motion, light, sound, or thermal energy and identify the requirements for a functioning electrical circuit; and	Aligned Instead of energy production (2017 TEKS), energy transformation within circuits is the focus of the 2021 TEKS.
Lesson 6: Alternative Energy Resources	2010: 5(7)(C)	Removed in 2017 streamlining	Not aligned
Lesson 7: Rotation of Earth	2017: 5(8)(C)	5(9): The student recognizes patterns among the Sun, Earth, and Moon system and their effects. The student is expected to demonstrate that Earth rotates on its axis once approximately every 24 hours and explain how that causes the day/night cycle and the appearance of the Sun moving across the sky, resulting in changes in shadow positions and shapes.	Aligned
Lesson 8: Ecosystem Interactions	2017: 5(9)(A) 5(9)(B)	5(12)(A): observe and describe how a variety of organisms survive by interacting with biotic and abiotic factors in a healthy ecosystem; 5(12)(B): predict how changes in the ecosystem affect the cycling of matter and flow of energy in a food web; and 2010 5(9)(B) – Removed in 2021	Partially aligned The terms <i>biotic</i> and <i>abiotic</i> are new in the 2021 TEKS and not used in this lesson. <ul style="list-style-type: none"> Engage is aligned. Explore and Explore are partially aligned to “flow of energy” in 5(12)(B). Elaborate is aligned. Evaluate is partially aligned because questions 3 and 4 are aligned to 2017 5(9)(B) which was removed in 2021.
Lesson 9: Structures and Functions	2017: 5(10)(A)	5(13)(A): analyze the structures and functions of different species to identify how organisms survive in the same environment; and	Partially aligned This lesson asks students to analyze and compare structures and function of different species but not always within the same environment.

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Lesson Title	2010 & 2017 TEKS	2021 TEKS	Alignment
Lesson 10: Learned Behaviors and Inherited Traits	2017: 5(10)(B)	5(13)(B): explain how instinctual behavioral traits such as turtle hatchlings returning to the sea and learned behavioral traits such as orcas hunting in packs increase chances of survival.	Partially aligned <ul style="list-style-type: none">• Engaged is aligned.• Explore, Explain, and Elaborate are partially aligned because they all include inherited and acquired physical traits and the 2021 TEKS focus solely on instinctual and learned behaviors.• Evaluate is partially aligned because all five questions include inherited and acquired physical traits.