

STAAR Alternate 2 Spring 2025

Grade 5 Science Essence Statements

Includes only the overlapping curriculum that is eligible for assessment in the 2024-2025 school year.

STAAR Reporting Category 1	STAAR Reporting Category 2	STAAR Reporting Category 3	STAAR Reporting Category 4
<p>Matter and Energy: The student will demonstrate an understanding of the properties of matter and energy and their interactions.</p>	<p>Force, Motion, and Energy: The student will demonstrate an understanding of force, motion, and energy and their relationships.</p>	<p>Earth and Space: The student will demonstrate an understanding of components, cycles, patterns, and natural events of Earth and space systems.</p>	<p>Organisms and Environments: The student will demonstrate an understanding of the structures and functions of living organisms and their interdependence on each other and on their environment.</p>
<p>Knowledge and Skills Statement (5.6) Matter and energy. The student knows that matter has measurable physical properties that determine how matter is identified, classified, changed, and used. (Readiness and Supporting Standard) (3.6) Matter and energy. The student knows that matter has measurable physical properties that determine how matter is identified, classified, changed, and used. (Supporting Standard) Essence Statement Identifies and classifies matter by its physical properties and determines how matter is changed.</p>	<p>Knowledge and Skills Statement (5.7) Force, motion, and energy. The student knows the nature of forces and the patterns of their interactions. (Supporting Standard) (3.7) Force, motion, and energy. The student knows the nature of forces and the patterns of their interactions. (Supporting Standard) Essence Statement Knows that forces such as magnetism, gravity, pushing, and pulling can act on an object and cause patterns of motion and the transfer of energy. Knowledge and Skills Statement (5.8) Force, motion, and energy. The student knows that energy is everywhere and can be observed in cycles, patterns, and systems. (Readiness Standard) (4.8) Force, motion, and energy. The student knows that energy is everywhere and can be observed in cycles, patterns, and systems. (Supporting Standard) Essence Statement Knows that electrical energy can be transformed into other types of energy (motion, light, sound, and thermal) and understands how light can be reflected, refracted, or absorbed.</p>	<p>Knowledge and Skills Statement (5.9) Earth and space. The student recognizes patterns among the Sun, Earth, and Moon system and their effects. (Readiness Standard) (4.9) Earth and space. The student recognizes patterns among the Sun, Earth, and Moon system and their effects. (Supporting Standard) (3.9) Earth and space. The student knows there are recognizable objects and patterns in Earth’s solar system. (Supporting Standard) Essence Statement Recognizes the patterns of movement of the Sun, Earth, and Moon and understands the effects of this movement. Knowledge and Skills Statement (5.10) Earth and space. The student knows that there are recognizable patterns and processes on Earth. (Readiness and Supporting Standard) (4.10) Earth and space. The student knows that there are processes on Earth that create patterns of change. (Supporting Standard) (3.10) Earth and space. The student knows that there are recognizable processes that change Earth over time. (Supporting Standard) Essence Statement Knows that there are patterns and</p>	<p>Knowledge and Skills Statement (5.12) Organisms and environments. The student describes patterns, cycles, systems, and relationships within environments. (Readiness Standard) (4.12) Organisms and environments. The student describes patterns, cycles, systems, and relationships within environments. (Supporting Standard) (3.12) Organisms and environments. The student describes patterns, cycles, systems, and relationships within environments. (Supporting Standard) Essence Statement Describes/Identifies how living systems interact with their environment to create a healthy ecosystem. Knowledge and Skills Statement (5.13) Organisms and environments. The student knows that organisms undergo similar life processes and have structures and behaviors that help them survive within their environments. (Readiness Standard) Essence Statement Knows that organisms have structures and functions that help them survive within their environments.</p>

processes on Earth that change the Earth's surface over time.

Knowledge and Skills Statement

(4.11) Earth and space. The student understands how natural resources are important and can be managed.
(Supporting Standard)

Essence Statement

Understands Earth's renewable and nonrenewable natural resources.