STAAR Alternate Operational Test Spring 2013
Grade 5 Science
Essence Statements

Note: The yellow highlight and alphabetical reference indicate the four state-required essence statements that comprise the STAAR Alternate assessment for Grade 5 Science.

STAAR Reporting Category	TEKS Knowledge and Skills Statement	Essence Statement
STAAR Reporting Category 1 – Matter and Energy: The student will demonstrate an understanding of the properties of matter and energy and their interactions.	**(5.5) Matter and energy.** The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used. **(3.5) Matter and energy.** The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used.	(A) Identifies and classifies matter by its physical properties and determines how matter is changed.
STAAR Reporting Category 2 – Force, Motion, and Energy: The student will demonstrate an understanding of force, motion, and energy and their relationships.	**(5.6) Force, motion, and energy.** The student knows that energy occurs in many forms and can be observed in cycles, patterns, and systems. **(3.6) Force, motion, and energy.** The student knows that forces cause change and that energy exists in many forms.	(B) Recognizes force, motion, and energy and their relationships.
STAAR Reporting Category 3 – Earth and Space: The student will demonstrate an understanding of components, cycles, patterns, and natural events of Earth and space systems.	**(5.7) Earth and space.** The student knows Earth's surface is constantly changing and consists of useful resources. **(4.7) Earth and space.** The student knows that Earth consists of useful resources and its surface is constantly changing. **(3.7) Earth and space.** The student knows that Earth consists of natural resources and its surface is constantly changing.	(C) Knows that Earth's surface is constantly changing and consists of useful resources.
STAAR Reporting Category 3 – Earth and Space: The student will demonstrate an understanding of components, cycles, patterns, and natural events of Earth and space systems.	**(5.8) Earth and space.** The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system. **(4.8) Earth and space.** The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system. **(3.8) Earth and space.** The student knows there are recognizable patterns in the natural world and among objects in the sky.	Recognizes patterns in the natural world and among the Sun, Earth, and Moon system.

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STAAR Reporting Category	TEKS Knowledge and Skills Statement	Essence Statement
STAAR Reporting Category 4 – 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.	**(5.9) Organisms and environments.** The student knows that there are relationships, systems, and cycles within environments. **(3.9) Organisms and environments.** The student knows that organisms have characteristics that help them survive and can describe patterns, cycles, systems, and relationships within the environments.	Knows that there are relationships and characteristics within environments that support organisms.
STAAR Reporting Category 4 – 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.	**(5.10) Organisms and environments.** The student knows that organisms undergo similar life processes and have structures that help them survive within their environments. **(3.10) Organisms and environments.** The student knows that organisms undergo similar life processes and have structures that help them survive within their environments.	(D) Knows that organisms undergo life processes and have structures that help them survive within their environments.

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