

# STAAR Alternate 2 Spring 2019

## Grade 5 Science Essence Statements

STAAR Reporting Category 1	STAAR Reporting Category 2	STAAR Reporting Category 3	STAAR Reporting Category 4
<p><b>Matter and Energy:</b> The student will demonstrate an understanding of the properties of matter and energy and their interactions.</p>	<p><b>Force, Motion, and Energy:</b> The student will demonstrate an understanding of force, motion, and energy and their relationships.</p>	<p><b>Earth and Space:</b> The student will demonstrate an understanding of components, cycles, patterns, and natural events of Earth and space systems.</p>	<p><b>Organisms and Environments:</b> 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><b>Knowledge and Skills Statements</b></p> <p><b>(5.5) Matter and energy.</b> The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used. (Readiness and Supporting Standard)</p> <p><b>(3.5) Matter and energy.</b> The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used. (Supporting Standard)</p> <p><b>Essence Statement</b> Identifies and classifies matter by its physical properties and determines how matter is changed.</p>	<p><b>Knowledge and Skills Statements</b></p> <p><b>(5.6) Force, motion, and energy.</b> The student knows that energy occurs in many forms and can be observed in cycles, patterns, and systems. (Readiness and Supporting Standard)</p> <p><b>(3.6) Force, motion, and energy.</b> The student knows that forces cause change and that energy exists in many forms. (Supporting Standard)</p> <p><b>Essence Statement</b> Recognizes force, motion, and energy and their relationships.</p>	<p><b>Knowledge and Skills Statements</b></p> <p><b>(5.7) Earth and space.</b> The student knows Earth’s surface is constantly changing and consists of useful resources. (Readiness Standard)</p> <p><b>(4.7) Earth and space.</b> The students know that Earth consists of useful resources and its surface is constantly changing. (Supporting Standard)</p> <p><b>(3.7) Earth and space.</b> The student knows that Earth consists of natural resources and its surface is constantly changing. (Supporting Standard)</p> <p><b>Essence Statement</b> Knows that Earth’s surface is constantly changing and consists of useful resources.</p>	<p><b>Knowledge and Skills Statements</b></p> <p><b>(5.9) Organisms and environments.</b> The student knows that there are relationships, systems, and cycles within environments. (Readiness and Supporting Standard)</p> <p><b>(3.9) Organisms and environments.</b> The student knows and can describe patterns, cycles, systems, and relationships within the environments. (Supporting Standard)</p> <p><b>Essence Statement</b> Knows that there are relationships and characteristics within environments that support organisms.</p> <hr style="width: 10%; margin: 10px auto;"/> <p><b>Knowledge and Skills Statements</b></p> <p><b>(5.10) Organisms and environments.</b> The student knows that organisms have structures and behaviors that help them survive within their environments. (Readiness Standard)</p> <p><b>(3.10) Organisms and environments.</b> The student knows that organisms undergo similar life processes and have structures that help them survive within their environments. (Supporting Standard)</p> <p><b>Essence Statement</b> Knows that organisms undergo similar life processes and have structures and behaviors that help them survive within their environments.</p>

**Knowledge and Skills**

**Statements**

**(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. (Readiness and Supporting Standard)

**(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. (Supporting Standard)

**(3.8) Earth and space.** The student knows there are recognizable patterns in the natural world and among objects in the sky. (Supporting Standard)

**Essence Statement**

Recognizes patterns in the natural world and among the Sun, Earth, and Moon system.