<table>
<thead>
<tr>
<th>STAAR Reporting Category 1</th>
<th>STAAR Reporting Category 2</th>
<th>STAAR Reporting Category 3</th>
<th>STAAR Reporting Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Matter and Energy:</strong> The student will demonstrate an understanding of the properties of matter and energy and their interactions.</td>
<td><strong>Force, Motion, and Energy:</strong> The student will demonstrate an understanding of force, motion, and energy and their relationships.</td>
<td><strong>Earth and Space:</strong> The student will demonstrate an understanding of components, cycles, patterns, and natural events of Earth and space systems.</td>
<td><strong>Organisms and Environments:</strong> The student will demonstrate an understanding of the structures and functions of living organisms and their interdependence on each other and on their environment.</td>
</tr>
</tbody>
</table>

### Knowledge and Skills Statements

#### (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. (Readiness and Supporting Standard)

#### (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. (Supporting Standard)

**Essence Statement**
Identifies and classifies matter by its physical properties and determines how matter is changed.

#### Knowledge and Skills Statements

##### (5.6) Force, motion, and energy.
The student knows that energy occurs in many forms and can be observed in cycles, patterns, and systems. (Readiness and Supporting Standard)

##### (3.6) Force, motion, and energy.
The student knows that forces cause change and that energy exists in many forms. (Supporting Standard)

**Essence Statement**
Recognizes force, motion, and energy and their relationships.

#### Knowledge and Skills Statements

##### (5.7) Earth and space.
The student knows Earth’s surface is constantly changing and consists of useful resources. (Readiness Standard)

##### (4.7) Earth and space.
The students know that Earth consists of useful resources and its surface is constantly changing. (Supporting Standard)

##### (3.7) Earth and space.
The student knows that Earth consists of natural resources and its surface is constantly changing. (Supporting Standard)

**Essence Statement**
Knows that Earth’s surface is constantly changing and consists of useful resources.

#### Knowledge and Skills Statements

##### (5.9) Organisms and environments.
The student knows that there are relationships, systems, and cycles within environments. (Readiness and Supporting Standard)

##### (3.9) Organisms and environments.
The student knows and can describe patterns, cycles, systems, and relationships within the environments. (Supporting Standard)

**Essence Statement**
Knows that there are relationships and characteristics within environments that support organisms.

#### Knowledge and Skills Statements

##### (5.10) Organisms and environments.
The student knows that organisms have structures and behaviors that help them survive within their environments. (Readiness Standard)

##### (3.10) Organisms and environments.
The student knows that organisms undergo similar life processes and have structures that help them survive within their environments. (Supporting Standard)

**Essence Statement**
Knows that organisms undergo similar life processes and have structures and behaviors that help them survive within their environments.
<table>
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<td><strong>(5.8) Earth and space.</strong> The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system. (Readiness and Supporting Standard)</td>
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<td><strong>(4.8) Earth and space.</strong> The student knows that there are recognizable patterns in the natural world and among the Sun, Earth, and Moon system. (Supporting Standard)</td>
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<tr>
<td><strong>(3.8) Earth and space.</strong> The student knows there are recognizable patterns in the natural world and among objects in the sky. (Supporting Standard)</td>
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**Essence Statement**
Recognizes patterns in the natural world and among the Sun, Earth, and Moon system.