

Topic: Energy Transfer and Transformation	
Included Standards SC.4.P.11.1 SC.4.P.11.2	
Grade: 4th	
Score 4.0	<p>In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught.</p> <ul style="list-style-type: none"> ○ Investigate ways that heat flows from hot objects to cold objects. ○ Investigate ways that heat flow may cause materials to change temperature. ○ Experiment with objects that conduct heat well or poorly.
Score 3.0	<p>The student will understand how heat flows and be able to identify common materials that conduct heat well or poorly.</p> <p>Performs complex skills:</p> <ul style="list-style-type: none"> ○ Explain how heat flows from hot objects to cold objects. ○ Explain how heat flow may cause materials to change temperature. ○ Sort common materials that conduct heat well or poorly. <p>The student exhibits no major errors or omissions regarding the score 3.0 content.</p>
Score 2.0	<p>The student:</p> <p>Recognizes or recalls specific terminology: heat, heat flow, temperature, conduct heat</p> <p>Performs basic skills:</p> <ul style="list-style-type: none"> ○ Recognize that heat flows from hot objects to cold objects. ○ Recognize that heat flow may cause materials to change temperature. ○ Identify common materials that conduct heat well or poorly. <p>No major errors or omissions regarding the score 2.0 content.</p>
Score 1.0	With help, I know some of 2.0 and 3.0.
Score 0.0	Even with help, I am unable to understand.

Topic: Forces and Changes in Motion	
Included Standards: SC.4.P.12.1 SC.4.P.12.2	
Grade: 4th	
Score 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught. Conduct experiments with objects that move at different speeds and distances.
Score 3.0	The student will understand how an object in motion changes and be able to measure the changes. Performs complex skills: <ul style="list-style-type: none"> ○ Investigate that the speed of an object is determined by the distance it travels in a unit of time. ○ Compare and contrast objects that move at different speeds. The student exhibits no major errors or omissions regarding the score 3.0 content.
Score 2.0	The student: Recognizes or recalls specific terminology: motion, position, direction, speed, unit of time Performs basic skills: <ul style="list-style-type: none"> ○ Recognize that an object in motion always changes its position and may change its motion. ○ Describe that the speed of an object is determined by the distance it travels in a unit of time. ○ Identify objects that move at different speeds. No major errors or omissions regarding the score 2.0 content.
Score 1.0	With help, I know some of 2.0 and 3.0.
Score 0.0	Even with help, I am unable to understand.

Topic: Energy	
Included Standards: SC.4.P.10.1 SC.4.P.10.3 (SC.3.P.10.1 SC.3.P.10.3 SC.3.10.4 SC.3.P.11.1 SC.3.P.11.2)	
Grade: 4th	
Score 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught. Investigate the types of energy and experiment different ways to cause motion or create change.
Score 3.0	The student will understand types of energy and be able to understand that energy has the ability to cause motion or create change. Performs complex skills: <ul style="list-style-type: none"> ○ Investigate and explain that sound is produced by vibrating objects. ○ Investigate and explain that pitch depends on how fast or slow the object vibrates. ○ Investigate that energy has the ability to cause motion or create change. ○ Explain how water and air are sources of energy. <p>The student exhibits no major errors or omissions regarding the score 3.0 content.</p>
Score 2.0	The student: Recognizes or recalls specific terminology: forms of energy (light, heat { <i>thermal</i> }, sound, electrical, motion) line, pitch, vibration, change, moving air, moving water Performs basic skills: <ul style="list-style-type: none"> ○ Observe and describe types of energy (light, heat {thermal}, sound, electrical, and motion) ○ Identify that sound is produced by vibrating objects. ○ Identify that pitch depends on how fast or slow the object vibrates. ○ Describe how energy has the ability to cause motion or create change. ○ Describe how moving water and air are sources of energy and can be used to move things. ○ Describe how water and air are sources of energy. <p>No major errors or omissions regarding the score 2.0 content.</p>
Score 1.0	With help, I know some of 2.0 and 3.0.
Score 0.0	Even with help, I am unable to understand.