




# PGIS Priority Standard Summary Chart


**Priority Standard (s):** 5.6A: Explore the uses of energy, including mechanical, electrical, light, thermal, and sound energy.

**Ladder:** Top rung is the standard in its entirety. Please write in the learning target for each rung until you reach the top rung. Add rows if needed.

	<b>Priority Standard</b>	<b>Priority Standard (s):</b> 5.6A: Explore the uses of energy, including mechanical, electrical, light, thermal, and sound energy.
	<b>Step 6 to Proficiency</b>	I can compare and contrast the uses of mechanical, electrical, light, thermal, and sound energy.
	<b>Step 5 to Proficiency</b>	I can explore the uses of energy through mechanical energy.
	<b>Step 4 to Proficiency</b>	I can explore the uses of energy through electrical energy.
	<b>Step 3 to Proficiency</b>	I can explore the uses of energy through light energy.
	<b>Step 2 to Proficiency</b>	I can explore the uses of energy through thermal energy.
	<b>Step 1 to Proficiency</b>	I can explore the uses of energy through sound energy.



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<p><b>Grade: 5</b></p>	<p><b>Subject: Science</b></p>																																								
<p><b>Example of Rigor:</b>          What does proficient work look like?          What DOK level? Provide an example or description.</p>	<p>Achieving 80% accuracy on “Uses of Energy” Study Island, vocabulary quizzes, and Unit test.</p> <div data-bbox="661 451 1117 959" style="border: 1px solid black; padding: 5px;"> <p>14 The photograph shows a laser cutting a sheet of metal as the laser moves from one end of the metal to the other.</p>  <p>Four groups of students each made a table of examples of the different types of energy involved in this process. Which of these tables is correct?</p> <table border="1" data-bbox="709 646 892 776"> <thead> <tr> <th>Type of Energy</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>Mechanical</td> <td>The laser moves across the metal.</td> </tr> <tr> <td>Thermal</td> <td>Light reflects off the metal.</td> </tr> <tr> <td>Sound</td> <td>Sparks hit the floor.</td> </tr> <tr> <td>Light</td> <td>The metal turns red.</td> </tr> </tbody> </table> <table border="1" data-bbox="913 646 1087 776"> <thead> <tr> <th>Type of Energy</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>Mechanical</td> <td>The laser produces a beam of light.</td> </tr> <tr> <td>Thermal</td> <td>The temperature of the metal rises.</td> </tr> <tr> <td>Electrical</td> <td>The laser is part of a circuit.</td> </tr> <tr> <td>Sound</td> <td>Pieces of metal hit the floor.</td> </tr> </tbody> </table> <table border="1" data-bbox="709 792 892 922"> <thead> <tr> <th>Type of Energy</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>Mechanical</td> <td>The laser produces sparks.</td> </tr> <tr> <td>Thermal</td> <td>The laser is part of a circuit.</td> </tr> <tr> <td>Electrical</td> <td>The light cuts the metal.</td> </tr> <tr> <td>Sound</td> <td>Sparks hit the floor.</td> </tr> </tbody> </table> <table border="1" data-bbox="913 792 1087 922"> <thead> <tr> <th>Type of Energy</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>Mechanical</td> <td>The laser moves across the metal.</td> </tr> <tr> <td>Thermal</td> <td>The laser produces sparks.</td> </tr> <tr> <td>Sound</td> <td>Pieces of metal hit the floor.</td> </tr> <tr> <td>Light</td> <td>The laser produces a beam of light.</td> </tr> </tbody> </table> </div> <p>DOK Level: 1 <b>2</b> 3 4</p>	Type of Energy	Example	Mechanical	The laser moves across the metal.	Thermal	Light reflects off the metal.	Sound	Sparks hit the floor.	Light	The metal turns red.	Type of Energy	Example	Mechanical	The laser produces a beam of light.	Thermal	The temperature of the metal rises.	Electrical	The laser is part of a circuit.	Sound	Pieces of metal hit the floor.	Type of Energy	Example	Mechanical	The laser produces sparks.	Thermal	The laser is part of a circuit.	Electrical	The light cuts the metal.	Sound	Sparks hit the floor.	Type of Energy	Example	Mechanical	The laser moves across the metal.	Thermal	The laser produces sparks.	Sound	Pieces of metal hit the floor.	Light	The laser produces a beam of light.
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<p><b>Prerequisite Skills:</b>          What prior knowledge, skills and/or vocabulary are needed for a student to master this standard?</p>	<ul style="list-style-type: none"> <li>-energy</li> <li>-light energy</li> <li>-sound energy</li> <li>-thermal energy</li> <li>-mechanical energy</li> <li>-electrical energy</li> </ul>																																								
<p><b>When Taught:</b>          When will this standard be taught?</p>	<p>Unit 2 (September 19 - October 14)</p>																																								



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<p><b>Common Assessments:</b>          What assessments will be used to measure student mastery? (CFA and Unit assessment) Link them here.</p>	<ol style="list-style-type: none"> <li>1. <a href="#">“MELTS” observation stations &amp; reflections for each form of energy.</a></li> <li>2. <a href="#">Energy Vocabulary Quiz</a></li> <li>3. Student-created “Forms of Energy Flip Book” with descriptors and illustrations.</li> <li>4. <a href="#">Power Up 5.6A</a></li> <li>5. Unit 2 Assessment</li> </ol>
<p><b>Extension</b>          What will we do when the students have already learned this standard?</p>	<p><a href="#">Choice Board over Unit 2: Uses of Energy</a></p> <p><a href="#">Lazer Mazes</a></p>
<p><b>Additional Instructional Materials</b>          (Link here)</p>	<ul style="list-style-type: none"> <li>● Study Island             <ul style="list-style-type: none"> <li>○ <i>Provides rigorous testing practice prior to unit assessment.</i></li> <li>○ <i>Used to show mastery after Tier 2 Interventions</i></li> </ul> </li> <li>● Quizizz</li> <li>● <a href="#">Kahoot</a> : Uses of Energy</li> <li>● <a href="#">Generation Genius</a></li> <li>● <a href="#">Study Jams</a> <ul style="list-style-type: none"> <li>○ <i>Energy, Light, and Sound</i></li> </ul> </li> <li>● <a href="#">Quizlet, Quizlet LIVE</a></li> <li>● <a href="#">Married Words</a></li> <li>● Science Starters</li> <li>● Power UP</li> <li>● Science Fusion Textbook             <ul style="list-style-type: none"> <li>○ <i>Unit 5: Forms of Energy</i></li> </ul> </li> <li>● ScienceSaurus Student Handbook             <ul style="list-style-type: none"> <li>○ <i>Energy Section</i></li> </ul> </li> <li>● Science Labs:             <ul style="list-style-type: none"> <li>○ <i>“MELTS” Energy Stations</i></li> <li>○ <i>Conductivity Lab</i></li> <li>○ <i>Light Lab (Reflection/Refraction)</i></li> </ul> </li> </ul>