



# Annville-Cleona School District

## Curriculum Map: Sixth Grade Science

**Description:** During 6th grade, students will use an inquiry-based approach to utilize STEM and 21st century science skills to study levers and pulleys, forces and motion, interactions and impact of organisms in different types of environments, weather and climate and solar energy. Students will engage in the process of science to develop effective problem-solving skills applicable to real world situations that will better prepare them for future personal, academic and career success.

Units of Study	PA Core Standards for Science	
<p><b>Unit: Levers and Pulleys</b></p> <ul style="list-style-type: none"> <li>□ Introduction to Levers</li> <li>□ Lever/Pulleys and Advantage</li> <li>□ Levers Effort and Advantage</li> <li>□ Lever Classes</li> <li>□ Class 2 Levers</li> <li>□ Real World Levers</li> <li>□ One Pulley System</li> <li>□ Two Pulley System</li> <li>□ Pulleys at Work</li> <li>□ Measuring Distance</li> </ul>	<p>S6.A S6.A.1 S6.A.1.1 S6.A.1.1.1 S6.A.1.1.2 S6.A.1.1.3 S6.A.3</p>	<p>S6.A.3.1 S6.A.3.1.1 S6.A.3.1.2 S6.A.2 S6.A.2.1 S6.A.2.2</p>
Units of Study	PA Core Standards for Science	
<p><b>Unit: Environments</b></p> <ul style="list-style-type: none"> <li>□ Terrestrial Environmental</li> <li>□ Recording Changes</li> <li>□ Making Animal Runaways</li> <li>□ Responding to Moisture</li> <li>□ Responding to Light</li> <li>□ Aquatic Environments</li> <li>□ Acid in Water</li> <li>□ New Organisms</li> <li>□ Brine Shrimp Hatching</li> <li>□ Brine Shrimp</li> <li>□ Determining Viability</li> </ul>	<p>S6.A.1 S6.A.1.1 S6.A.1.1.2 S6.A.1.1.3 S6.A.1.2 S6.A.1.2.2</p>	<p>S6.B.3 S6.B.3.1 S6.B.3.1.1 S6.B.3.2 S6.B.3.2.1</p>

Units of Study	PA Core Standards for Science		
<b>Unit: Solar Energy</b> <ul style="list-style-type: none"> <li>☐ Sun Tracking</li> <li>☐ Heating the Earth</li> <li>☐ Solar Water Heaters</li> </ul>	S6.A.1 S6.A.1.1 S6.A.1.1.2 S6.A.1.1.3 S6.A.1.2 S6.A.1.2.1 S6.A.2	S6.A.2.1.1 S6.A.2.1.2 S6.C.2 S6.C.2.1 S6.C.2.1.1 S6.C.2.1.2 S6.C.2.1.3	S6.A.2.1
Units of Study	PA Core Standards for Science		
<b>Unit: Principles of Forces</b> <ul style="list-style-type: none"> <li>☐ Forces</li> <li>☐ Friction</li> <li>☐ Gravity</li> <li>☐ Magnetism</li> </ul>	S6.A.1 S6.A.1.1 S6.A.1.1.3 S6.A.2 S6.A.2.1 S6.A.2.2 S6.A.3	S6.A.3.2 S6.C.3 S6.C.3.1 S6.C.3.1.1 S6.C.3.1.2 S6.C.3.2 S6.C.3.2.1	S6.C.3.2.2 S6.C.3.2.3 S8.C.3 S8.C.3.1.1 S8.C.3.1.2 S8.C.3.1.3
Units of Study	PA Core Standards for Science		
<b>Unit: Principles of Motion</b> <ul style="list-style-type: none"> <li>☐ Position and Motion</li> <li>☐ Speed, Velocity and Acceleration</li> <li>☐ Newton’s Laws of Motion</li> </ul>	S6.A.1 S6.A.1.1 S6.A.1.1.1 S6.A.1.1.2 S6.A.1.1.3	S6.A.2 S6.A.2.1 S6.A.2.1.1 S6.A.2.1.2 S6.A.2.2	S6.C S6.C.3 S6.C.3.1 S6.C.3.1.1 S6.C.3.1.2
Units of Study	PA Core Standards for Science		
<b>Unit: Earth and Space Sciences – Extreme Weather, Climate, and Atmospheric Processes</b> <ul style="list-style-type: none"> <li>☐ Weather</li> <li>☐ Climate</li> <li>☐ Human Impact on Climate</li> </ul>	S6.A.1 S6.A.1.1 S6.A.1.1.2 S6.A.1.1.3 S6.A.1.2	S6.D.2 S6.D.2.1 S6.D.2.1.1 S6.D.2.1.2 S6.D.2.1.3	S8.D.2 S8.D.2.1.1 S8.D.2.1.2 S8.D.2.1.3