

# 7th Grade Science Agenda- Mrs. Sharon

Week of May 15, 2017

Day	In Class/Learning Targets	HW/Reminders
<p><b>Monday</b> <b>5-15</b></p> <p><i>I can describe the movement of a transverse, longitudinal and wave.</i></p> <p><b>Success Criteria:</b> <i>Students will complete the Waves Discovery Stations.</i></p>	<p><b>Block Schedule-Odd Day (1, 3, 7)</b></p> <ol style="list-style-type: none"> <li>1. Waves and Energy KWL Chart</li> <li>2. Read p. 6-10 in Sound and Light book: What are Waves?</li> <li>3. T4 (talk to the text) Activity</li> <li>4. Wave Notes <ul style="list-style-type: none"> <li>• transverse, longitudinal, medium</li> </ul> </li> <li>5. <u>Waves Discovery Stations</u></li> <li>6. What are Waves? Review and Reinforce WS</li> </ol>	<p>Finish: What are Waves? R&amp;R</p>
<p><b>Tuesday</b> <b>5-16</b></p>	<p><b>Block Schedule-Even Day (2, 4, 6)</b></p>	
<p><b>Wednesday</b> <b>5-17</b></p> <p><i>I can describe amplitude, wavelength, frequency, speed.</i></p> <p><b>Success Criteria:</b> <i>Students will earn 80% or better on the What are Waves WS?</i></p>	<p><b>Block Schedule-Odd Day (1, 3, 7)</b></p> <p><b>Check: What are Waves?</b></p> <ol style="list-style-type: none"> <li>1. <u>Slinky Lab</u></li> <li>2. Wave Notes: <ul style="list-style-type: none"> <li>• amplitude, wavelength, frequency, speed</li> </ul> </li> <li>3. Read textbook p. 11-15: Properties of Waves and Guided Reading</li> <li>4. Properties of Waves Practice WS</li> <li>5. Review Waves Vocab</li> </ol>	
<p><b>Thursday</b> <b>5-18</b></p>	<p><b>Block Schedule-Even Day (2, 4, 6)</b></p> <p><b>See Wednesday</b></p>	
<p><b>Friday</b> <b>5-19</b></p> <p><i>I understand the properties of waves.</i></p> <p><b>Success Criteria:</b> <i>Students will earn at least an 80% on the Properties of Waves WS.</i></p>	<p><b>See All Classes/Early Release</b></p> <p><b>Check: Properties of Waves</b></p> <ol style="list-style-type: none"> <li>1. Finding Transverse Wave Frequency and Speed</li> </ol>	

Turn Over for Standards covered this unit.

### **Engineering Design (All Levels)**

**MS-ETS1-1** Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.

**MS-ETS1-2** Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.

**MS-ETS1-3** Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.

**MS-ETS1-4** Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.

### **Waves and Electromagnetic Radiation**

**MS-PS4-1** Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave.

**MS-PS4-2** Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.

**MS-PS4-3** Integrate qualitative scientific and technical information to support the claim that digitized signals are a more reliable way to encode and transmit information than analog signals.