

# 7th Grade Science Agenda- Mrs. Sharon

Week of May 22, 2017

Day	In Class/Learning Targets	HW/Reminders
<b>Monday 5-22</b>  <i>I can describe properties of waves.</i>  <i>I can explain how waves interact with each other and various materials.</i>	<b>Block Schedule-Odd Day (1, 3, 7)</b>  <b>Check: Slinky Lab</b>  1. Review Properties of Waves Vocab 2. Notes in notebook: reflection, refraction, diffraction, interference 3. Read textbook p. 17-23 Interactions of Waves: Guided Reading 4. HW: Review and Reinforce: Interactions of Waves	<b>Finish Review and Reinforce</b>  <b>You need your laptop next class!</b>
<b>Tuesday 5-23</b>	<b>Block Schedule-Even Day (2, 4, 6)</b>  <b>See Monday</b>	
<b>Wednesday 5-24</b>  <i>I can explain how waves interact with each other and various materials.</i>	<b>Block Schedule-Odd Day (1, 3, 7)</b>  <b>Check: Interactions of Waves Review and Reinforce</b>  1. Making Waves Lab 2. Catch the Waves Interactive 3. What are Electromagnetic Waves?	<b>Field Trip Slips due by today!</b>  <b>Do you have your laptop?</b>
<b>Thursday 5-25</b>	<b>Block Schedule-Even Day (2, 4, 6)</b>  <b>See Wednesday</b>	
<b>Friday 5-26</b>  <i>I can understand that electromagnetic waves do not need a medium to travel.</i>	<b>See All Classes/Early Release</b>  <b>Check: Making Waves Lab</b>  1. Prism Exploration 2. ROY G. BIV/Electromagnetic Spectrum	<b>Quiz June 12/13</b>  <b>Start studying your vocab now!</b>

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.