

7th Grade Science Agenda- Mrs. Sharon

Week of May 15, 2017

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

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.