

# SCIENCE AGENDA May 22 - 26th

## 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.

| DATE                         | FOCUS QUESTION   | IN CLASS WORK (Performance Task)  | SUCCESS CRITERIA<br>HOMEWORK  |
|------------------------------|--|---|---|
| <b>Monday</b><br>May 22nd    | <b>FOCUS QUESTION</b><br>How do you measure the wavelength and amplitude of a wave?  | <ul style="list-style-type: none"> <li>Students will practice drawing waves with different wavelengths and amplitudes.</li> </ul>   | <b>HW:</b> None<br><br>Students will successfully draw a wave with a given amplitude and wavelength.                    |
| <b>Tuesday</b><br>May 23rd   | <b>FOCUS QUESTION</b><br>What affects the amplitude of a wave?   | <ul style="list-style-type: none"> <li>Students will receive notes on Energy and Waves.</li> <li>Students will work in groups of three to design an experiment to explain what affects the amplitude of a wave.</li> </ul>  | <b>HW:</b> Characteristics of a Wave WS<br><br>Students will be able to measure the length of a wave and its amplitude. |
| <b>Wednesday</b><br>May 24th | <b>FOCUS QUESTION</b><br>What are the parts of a transverse wave?  | <ul style="list-style-type: none"> <li>Students will watch a Bill Nye video on Waves.</li> </ul> <b>MOVIE LINK:</b> <a href="https://www.schooltube.com/video/2b2001da6d8146dbb388/Bill%20Nye%20-%20Waves">https://www.schooltube.com/video/2b2001da6d8146dbb388/Bill%20Nye%20-%20Waves</a> | <b>HW:</b> None<br><br>Students will be able to identify the medium, crest, trough, amplitude and wavelength of a wave. |
| <b>Thursday</b><br>May 25th  | <b>FOCUS QUESTION</b><br>What affects the amplitude of a wave?   | <ul style="list-style-type: none"> <li>Students will work in groups of three to design an experiment to explain what affects the amplitude of a wave.</li> </ul>  | <b>HW:</b> None<br><br>Students will have an experiment designed to test what affects the amplitude of a wave?          |
| <b>Friday</b><br>May 26th    | <b>STUDY GUIDE</b><br><b>I can</b> define and identify the crest, trough, wavelength and amplitude on a transverse wave.<br><b>I can</b> explain the differences of a transverse and compression wave.<br><b>I can</b> draw a transverse wave with a given wavelength and amplitude. | <ul style="list-style-type: none"> <li>Students will take a Science Quiz (Parts of a Wave).</li> </ul>  | <b>HW:</b> None<br><br>Students will achieve an 80% or better on this quiz.   |