Greetings 8th Grade Science Scholars!

We have some interesting lessons for you this week about longitudinal and surface waves, wave amplitude, wavelength, wave frequency and wave speed. I look forward to hearing the questions you come up with as you work through these lessons. I am eager to read your responses to the review questions at the end of each section.

This week’s assignment covers Science Sections 1.3, 1.4, 1.5, 1.6, 1.7, and 1.8 from Science Chapter 1: Waves of the Grade 8 March Family Resources Packet. Have fun and remember, we are here as your resource!

- **Standard:** 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.

- **Directions:**
  - Read pages 8-26 in the Science portion of the “TPS Grade 8 Family Resources March 2020” Packet
  - Follow the links, watch the videos, and try out the simulation.
  - Answer the **Review** questions for each section (1.3, 1.4, 1.5, 1.6, 1.7, and 1.8) as you read.
  - Send your teacher an email (or several) with your answers to the review questions for each section.
    - Title your email by week and section
      - Example Email Title: “Week of April 13-19, Sections 1.3, 1.4, 1.5, 1.6, 1.7, & 1.8”
    - Organize your email with headers for each lesson and number your responses.
      - Example Email Body Text:
        1.3 Longitudinal Waves
        1. Type your response
        2. Type your response

**NOTE:** You can send your teacher one email with your responses from all the lessons or several emails with each lesson separately. Your teachers are available by email if you have questions or need support! Please let us know approximately how long these lessons took you to complete. Even if you don’t finish all the sections, send us what you got. Start with section 1.3 on Longitudinal waves and work your way through. The last section 1.8 on Wave Speed has a fun **Doppler Ducks simulation** I think you’ll enjoy exploring. Be safe & stay healthy!

Your 8th Grade Science Teachers,
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