# 8TH GRADE PHYSICAL SCIENCE

ECHOLS MIDDLE SCHOOL

APRIL 2020 ISSUE 3

#### **WEEK 2 ANSWERS**

#### STEMscopedia:

Crest, Amplitude, Trough, Wavelength

#### Reading Science:

1.C, 2.D, 3.A, 4.B, 5.B,

#### Math Connections:

1. F = 1/T

2.T = 0.0067 S

3.F= 0.22 Hz

4. Period is 6s, frequency is 0.17 Hz

5.a. 1.5 vibrations per second, b. frequency is 1.5 Hz, c. period is 0.67s

6. Wave B because it has the largest amplitude.

7. Graph A because it is linear.

8. Graph B because it isn't a straight line.

9. Graph A because it passes through the origin.

#### **Guided Practice:**

#### Paragraph

Waves, Vibration, two, longitudinal, same, light, seismic, transverse, opposite, sound

#### Questions

- 1. Longitudinal and transverse.
- 2. Waves are created through a vibration and travel in the opposite direction of the medium.
- 3. They transmit energy, they are caused by a force, and they cause a vibration.



## IN THIS ISSUE

Answer Key for Week 2

Vocabulary with definitions

Wave Diagrams

Example calculations for Math Connections for Week 3

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### **VOCABULARY & DIAGRAMS**

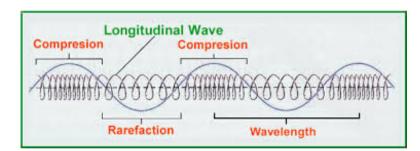
#### TRANSVERSE WAVES

#### FROM WEEK 2:

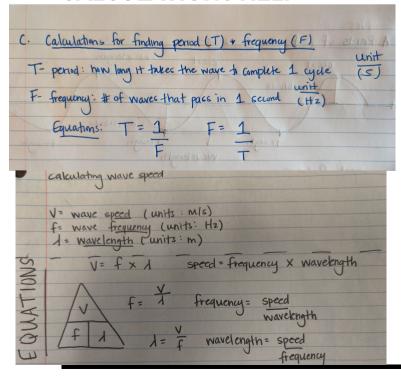
- Amplitude
- Wavelength
- Frequency
- Wave Speed
- Period
- Crest
- Trough

#### **NEW FOR WEEK 3:**

- Medium- any substance that carries a wave or through which the wave travels
- <u>Transmitted</u>- movement of a wave through a material
- Absorb- occurs when a wave comes in contact with a medium, making the molecules of the medium vibrate and move



# **CALCULATIONS HELP**



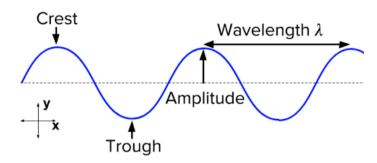


Figure 1: Parts of a transverse wave.

# COMPRESSION/LONGITUDINAL WAVES FROM WEEK 2:

- <u>Compression</u>
- Rarefaction
- Wavelength

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