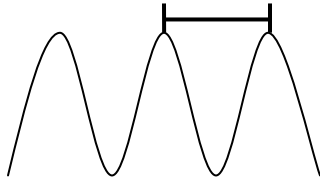


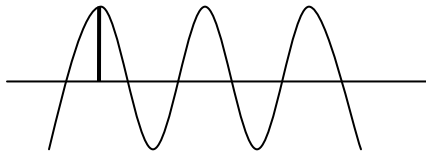
Guided Reading Chapter 24 Section 2

1. A _____ is an oscillation that travels from place to place with properties of frequency, amplitude, and wavelength.
2. Name several types of waves.
3. Waves carry _____ such as sound, pictures, or even numbers.
4. What is frequency?
5. What unit is used to measure frequency?
 - a) seconds
 - b) centimeters
 - c) hertz
6. A _____ is a high point on a wave, a _____ is a low point on a wave.

7. Label:



8. Label:



9. The speed of light travels at _____ miles/sec!
 - a) 100,000
 - b) 300,000
 - c) 186,000
10. How do you calculate the speed of a wave?
11. Draw the four wave interactions. Make sure to include all labels and direction of travel.

12. Match the word with the correct definition:

- _____ Reflection A. amplitude of a wave gets smaller and smaller as it passes through a material
- _____ Refraction B. happens when a wave bends across a boundary
- _____ Absorption C. the process of a wave bending around a corner
- _____ Diffraction D. when a wave bounces off an object

13. What is the difference between transverse and longitudinal waves?

14. Draw a transverse wave pulse and a longitudinal wave pulse. Make sure to include arrows to show movement of the wave direction and movement of the oscillations.

15. Constructive interference occurs when two waves, interact and make the resultant wave _____.

- a) smaller b) larger c) move

16. Destructive interference occurs when two waves interact and make the resultant wave _____.

- a) smaller b) larger c) move