

HPS-Waves, Sound, and Light Test Review

1. Label the following items on the wave:

- a. amplitude
- b. wavelength
- c. crest
- d. rest
- e. trough



2. Label the following items on the wave:

- a. wavelength
- b. compression
- c. rarefaction



3. What type of energy is associated with a wave? *kinetic energy*
4. What two properties affect the speed of a wave? *density/elasticity*
5. Of the phases of matter, which phase allows waves to travel the fastest through it? Why? *solid; it is the most elastic*
6. How does temperature affect the speed of a wave? *higher temperatures cause faster molecular movement therefore waves will move faster*
7. What type of wave is represented in question #1? Is sound or light representative of this type of wave? *transverse; light*
8. What type of wave is represented in question #2? Is sound or light representative of this type of wave? *longitudinal (compressional); sound*
9. How is the speed of sound calculated? *Speed of wave = frequency (Hz) X wavelength (λ) (meters)*
10. Solve the following problems:
 - a. What is the speed of a wave with a frequency of 10 hz and a wavelength of 2 meters? *10 hz X 2 meters = 20 m/sec*
 - b. What is the frequency of a wave with a speed of 60 m/sec and a wavelength of 200 cm?
convert 200 cm to 2 m first; 60 m/sec / 2 m = 30 hz
 - c. What is the wavelength of a wave with a speed of 15 m/sec and a frequency of 10 hz? *1.5 m*
11. What will cause a wave to change speed or direction? *a change in medium*
12. List and define the 4 type of wave interactions.
 - reflection- bouncing back of a wave*
 - refraction- bending of a wave as it enters a new medium*
 - diffraction- bending of a wave around a barrier*
 - interference- when 2 or more waves arrive at the same time and combine into a single new wave.*
13. What is the diagram below representing? Explain the concept.



Waves Sound Light Test

CL Gary



Waves Sound Light Test:

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