

Electromagnetic Waves Video

Name: _____

Date: _____

1. How do electromagnetic waves differ from water waves?
 - A. Electromagnetic waves do not transfer energy
 - B. Electromagnetic waves do not have crests and troughs
 - C. Electromagnetic waves can travel through the vacuum of space
 - D. Electromagnetic waves can vary by wavelength and frequency but water waves do not

2. What is a wavelength?
 - A. The length of time it take for one wave to pass a point within one second
 - B. The length of time it takes for several waves to pass a point within one second
 - C. The distance from crest of one wave to the trough of the same wave
 - D. The distance from the crest of one wave to the crest of another wave

3. What is wave frequency?
 - A. The length of time it take for one wave to pass a point within one second
 - B. The number of waves to pass a point within one second
 - C. The distance from crest of one wave to the trough of the same wave
 - D. The distance from the crest of one wave to the crest of another wave

4. Which of the following electromagnetic waves have the shortest wavelength, highest frequency, and the most energy?
 - A. Radio waves
 - B. Light waves
 - C. Gamma Waves
 - D. Microwaves

5. Which of the following electromagnetic waves have the longest wavelengths, lowest frequencies, and the least amount of energy?
 - A. Gamma Waves
 - B. Radio Waves
 - C. X Rays
 - D. Ultraviolet Waves