

Study of Space by the Electromagnetic Spectrum Practice Worksheet

Name _____

1. Energy transmitted through space as waves is
 - a. Electromagnetic radiation
 - b. Electronic waves
 - c. Sound waves
 - d. Sonic radiation

2. Radio waves and infrared light are relatively hotter.
 - a. TRUE
 - b. FALSE

3. The distance that light travels in one year is called an astronomical unit.
 - a. TRUE
 - b. FALSE

4. Visible light is composed of
 - a. Light-years
 - b. Gamma rays
 - c. Ultraviolet radiation
 - d. Electric and magnetic fields

5. Select all possible answers:
In the electromagnetic spectrum, which wavelengths are shorter than visible light?
 - a. gamma ray
 - b. ultraviolet light
 - c. radio waves
 - d. x-ray

6. Human eyes are only able to see visible light.
 - a. TRUE
 - b. FALSE

7. Astronomers use light years as a measure of _____.
 - a. distance

- b. volume
- c. mass

8. Complete the sentence using the word distance, frequency, or spectrum.
A wave's _____ measures the number of wavelengths that pass a given point
every second. Answer:

9. What is the range of wavelengths for visible light in the electromagnetic spectrum?

- a. 300 nm - 600 nm
- b. 200 nm - 500 nm
- c. 250 nm - 450 nm
- d. 400 nm - 700 nm

10. The horizontal distance between two wave crests is the _____.
a. Wave trough
b. Spectrum
c. Frequency
d. Wavelength