

# The Electromagnetic Spectrum

Use with Chapter 5,  
Section 5.1

1. What kinds of waves have the longest wavelength? What kinds of waves have the shortest wavelength?

Radio waves have the longest wavelength. Gamma have the shortest.

2. Which waves have the lowest frequency?

Radio waves have the lowest frequency.

3. Which has a higher frequency: microwaves or X rays?

X rays

4. Which waves can be seen by the eye?

Visible light

5. Sequence the different segments of the visible spectrum in order from shortest wavelength to longest wavelength.

Violet, blue, green, yellow, orange, and red.

6. Sequence the following types of waves from lowest frequency to highest frequency: ultraviolet rays, infrared rays, gamma rays, radio waves, and green light.

Radio, infrared, green, ultraviolet, and gamma.

7. Compare the wavelengths and frequencies of each kind of wave. What is the relationship between frequency and wavelength?

As wavelength increases, frequency decreases and vice versa.

8. What is the wavelength of a radio station emitting its signal at 95.5 MHz? Express your answer in the nearest power of ten.

# Physics Transparency Answers

**Clemens Wendtner**



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