

**TEACHING TRANSPARENCY WORKSHEET**



# 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?

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2. Which waves have the lowest frequency?

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

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4. Which waves can be seen by the eye?

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

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

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

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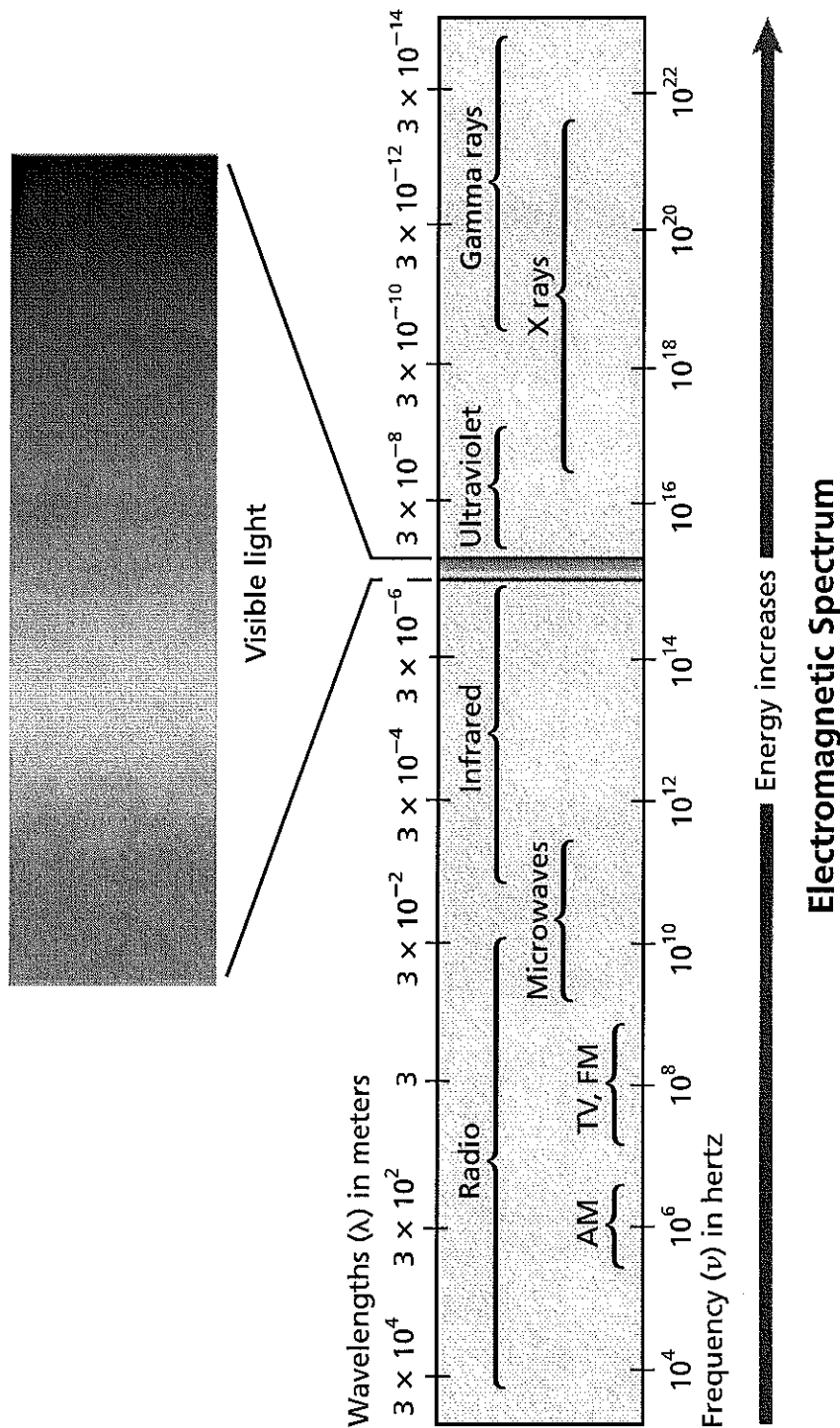
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8. What is the wavelength of a radio station emitting its signal at 95.5 MHz? Estimate your answer to the nearest power of ten.

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