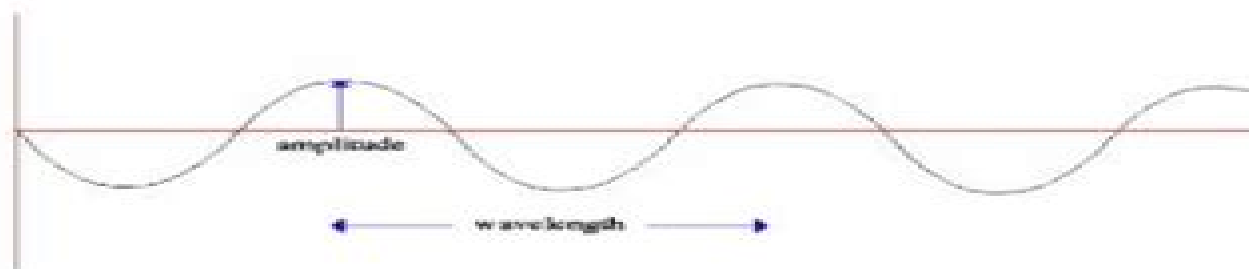


Electromagnetic Radiation and Atomic Spectra POGIL

Electromagnetic Radiation

Model 1: Characteristics of Waves



The figure above represents part of a wave. The entire wave can be thought of extending infinitely in both directions. One important characteristic of a wave is its wavelength (λ), as marked on the figure above.

- 1) Based on the figure above, define wavelength.

the distance between two peaks or troughs in a wave

- 2) Suppose that the wave depicted above is travelling to the left at a speed of 35 cm/sec and that $\lambda = 2.5$ cm.
- (a) How long would it take for 1 wavelength (or 1 cycle of the wave) to travel through the origin of the graph?

$$\frac{35 \text{ cm/s}}{2.5 \text{ cm}} = 14 \frac{1}{s} = 14 \text{ Hz}$$

- (b) How many wavelengths (or cycles) would travel through the origin during a time interval of 1 second?
- $(14 \text{ } \lambda/\text{sec})(1 \text{ sec}) = 14 \text{ } \lambda$

Pogil Answer Key Electromagnetic Spectrum

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