

# Electrons in Atoms

## Section 5.1 Light and Quantized Energy

In your textbook, read about the wave nature of light.

Use each of the terms below just once to complete the passage.

amplitude  
light

energy  
wave

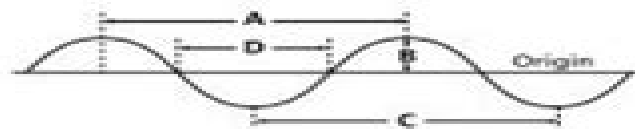
frequency  
wavelength

hertz  
speed

Electromagnetic radiation is a kind of **(1)** \_\_\_\_\_ that behaves like a(n) **(2)** \_\_\_\_\_ as it travels through space. **(3)** \_\_\_\_\_ is one type of electromagnetic radiation. Other examples include X rays, radio waves, and microwaves.

All waves can be characterized by their wavelength, amplitude, frequency, and **(4)** \_\_\_\_\_. The shortest distance between equivalent points on a continuous wave is called a(n) **(5)** \_\_\_\_\_. The height of a wave from the origin to a crest or from the origin to a trough is the **(6)** \_\_\_\_\_. **(7)** \_\_\_\_\_ is the number of waves that pass a given point in one second. The SI unit for frequency is the **(8)** \_\_\_\_\_, which is equivalent to one wave per second.

Use the figure to answer the following questions.



9. Which letter(s) represent one wavelength? \_\_\_\_\_
10. Which letter(s) represent the amplitude? \_\_\_\_\_
11. If twice the length of A passes a stationary point every second, what is the frequency of the wave?  
\_\_\_\_\_

# Answer Key Electrons In Atoms Chapter 5 2

**Arshad Iqbal**



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