

# 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

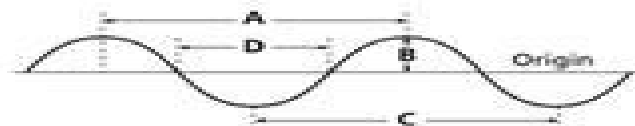
frequency  
wavelength

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?  
\_\_\_\_\_

# Prentice Hall Chemistry Practice Problems 19 3

**Yi-Tong Ma**



**Prentice Hall Chemistry Practice Problems 19 3:**

## Reviewing **Prentice Hall Chemistry Practice Problems 19 3**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Prentice Hall Chemistry Practice Problems 19 3**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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