

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 Answers Practice Problems

IM Harris



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in a discipline What does learning in the disciplines look like at different developmental levels How does one go about designing such learning and assessment in the disciplines What institutional structures and processes can assist faculty to engage and teach their disciplines as frameworks for student learning Creating ways to make a discipline come alive for those who are not experts even for students who may not take more than one or two courses in the disciplines they study requires rigorous thought about what really matters in a field and how to engage students in the practice of it Faculty from Alverno College representing a range of liberal arts disciplines chemistry economics history literature mathematics and philosophy here reflect on what it has meant for them to approach their disciplines as frameworks for student learning They present the intellectual biographies of their explorations the insights they have gained and examples of the practices they have adopted The authors all demonstrate how the ways of thinking they have identified as significant for their students in their respective disciplines have affected the way they design learning experiences and assessments They show how they have shaped their teaching around the ways of thinking they want their students to develop within and across their disciplines and what that means in terms of designing assessments that require students to demonstrate their thinking and understanding through application and use This book will appeal to faculty interested in going beyond mere techniques to a more substantive analysis of how their view of their respective disciplines might change when seen through the lens of student learning It will also serve the needs of graduate students trainers of Tas and anyone engaged in faculty development or interested in the scholarship of teaching

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