

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

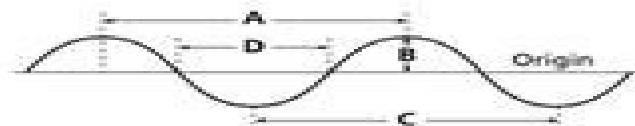
frequency
wavelength

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?

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K Morrison



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Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1956 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December *Problems and Problem Solving in Chemistry Education* Georgios Tsapalis, 2021-05-17 Problem solving is central to the teaching and learning of chemistry at secondary tertiary and post tertiary levels of education opening to students and professional chemists alike a whole new world for analysing data looking for patterns and making deductions As an important higher order thinking skill problem solving also constitutes a major research field in science education Relevant education research is an ongoing process with recent developments occurring not only in the area of quantitative computational problems but also in qualitative problem solving The following situations are considered some general others with a focus on specific areas of chemistry quantitative problems qualitative reasoning metacognition and resource activation deconstructing the problem solving process an overview of the working memory hypothesis reasoning with the electron pushing formalism scaffolding organic synthesis skills spectroscopy for structural characterization in organic chemistry enzyme kinetics problem solving in the academic chemistry laboratory chemistry problem solving in context team based active learning technology for molecular representations IR spectra simulation and computational quantum chemistry tools The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry With a foreword by George Bodner **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1967

Teaching Undergraduate Science Linda C. Hodges, 2025-09-25 Teaching Undergraduate Science A Guide to Overcoming Obstacles to Student Learning offers college and university instructors evidence based strategies to help students learn those specific skills and habits of mind necessary for succeeding in STEM fields Updated and expanded from the first edition this text elaborates on critical factors in cultivating student success including how to engender a sense of belonging and agency in STEM engage students in their learning and foster deliberate practice Hodges provides frank guidance on the relative effort and outcomes for each strategy allowing instructors to choose techniques best suited to their aims and contexts While focusing primarily on face to face classes this resource also addresses how to work between online resources and physical spaces Hodges years of experience working as and with STEM faculty provides a personal connection to the research shared producing an accessible practical and enjoyable read *Learning with Understanding in the Chemistry Classroom* Iztok Devetak, Saša Aleksij Glažar, 2014-01-14 This volume offers a critical examination of a variety of conceptual approaches to teaching and learning chemistry in the school classroom Presenting up to date research and theory and featuring contributions by respected academics on several continents it explores ways of making knowledge meaningful and relevant to students as well as strategies for effectively communicating the core concepts essential for developing a robust understanding of the subject Structured in three sections the contents deal first with teaching and learning chemistry

discussing general issues and pedagogical strategies using macro sub micro and symbolic representations of chemical concepts Researchers also describe new and productive teaching strategies The second section examines specific approaches that foster learning with understanding focusing on techniques such as cooperative learning presentations laboratory activities multimedia simulations and role playing in forensic chemistry classes The final part of the book details learner centered active chemistry learning methods active computer aided learning and trainee chemistry teachers use of student centered learning during their pre service education Comprehensive and highly relevant this new publication makes a significant contribution to the continuing task of making chemistry classes engaging and effective

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Materials Encyclopedia Joseph C. Salamone,1998-08-28 Concise Polymeric Materials Encyclopedia culls the most used widely applicable articles from the Polymeric Materials Encyclopedia more than 1 100 and presents them to you in a condensed well ordered format Featuring contributions from more than 1 800 scientists from all over the world the book discusses a vast array of subjects related to the synthesis properties and applications of polymeric materials development of modern catalysts in preparing new or modified polymers modification of existing polymers by chemical and physical processes biologically oriented polymers This comprehensive easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field **ECEL 2022 21st European Conference on**

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