

Study Guide: Light and Quantized Energy

(Chemistry Textbook p. 136 – 145)

Standard 8: Understand the electromagnetic spectrum & the mathematical relationships between energy, frequency, and wavelength of light.

Standard 9: Calculate the wavelength, frequency, & energy of light using Planck's constant and the speed of light

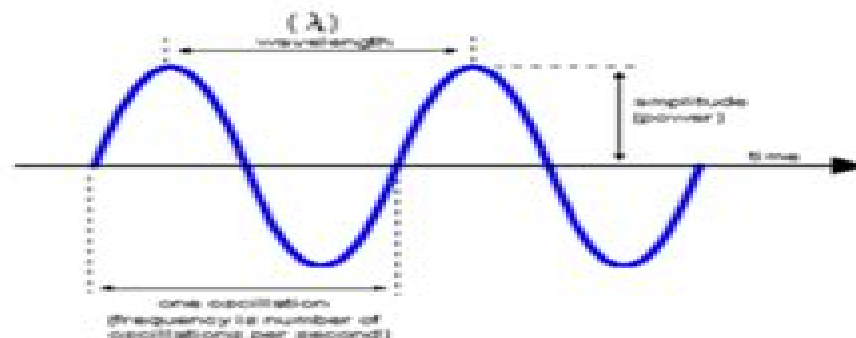
LIGHT AND ATOMIC SPECTRA

Much of what we know about the atom has been learned through experiments with light; thus, you need to know some fundamental concepts of light in order to understand the structure of the atom, especially the placement of the electrons.

The speed of light in a vacuum is the most accurately-known constant in the universe. You should memorize the value for the speed of light because we will be using it extensively.

The speed of light (c) in a vacuum is 3.0×10^8 meters per second.

Light actually has a "dual" nature (or split personality) because there are instances in which it behaves like a wave and other times when it behaves like a particle and sometimes as both. When we consider light as a wave, we must be able to describe its wavelength, its frequency and its velocity.



- (1) **wavelength is represented by the Greek letter lambda (λ)** which looks like an upside down "y". It is the length between corresponding parts of adjacent crests and can be expressed in ANY units of length you choose (feet, inches, meters, kilometers, miles) but normally we choose meters or nanometers as the most common units for wavelength.
- (2) **frequency is represented by the Greek letter nu (ν)** which looks like a "v". Frequency is the number of wave crests which pass a given point in 1 second. Its units are therefore (most commonly) cycles/second or sometimes simply /sec. The unit "Hertz" (abbreviated Hz) is also used as a label for frequency, although this label seems to be gradually going out of existence.

Example 3-8 Does a longer or a shorter wavelength have a greater frequency?

Example 3-9 What mathematical relationship can you draw about wavelength and frequency?

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Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH_4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

Basic Concepts of Chemistry, 9e Study Guide and Solutions Manual Leo J. Malone, Theodore O. Dolter, 2012-01-03 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter A new Math Check allows quick access to the needed basic skill The first chapter now includes brief introductions to several fundamental chemical concepts and Chapter Synthesis Problems have been added to the end of each chapter to bring key concepts into one encompassing problem Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter

Physics for Scientists and Engineers Study Guide Paul A. Tipler, Gene Mosca, 2008-01-11 The study guide provides students with key physical quantities and equations misconceptions to avoid questions and practice problems to gain further understanding of physics concepts and quizzes to test student knowledge of chapters All written with the same level of detail as the examples found in the text

Study Guide to Accompany Calculus for the Management, Life, and Social Sciences Clyde Metz, 1984-01-01 Study Guide to Accompany Calculus for the Management Life and Social Sciences

Physics for Scientists and Engineers Study Guide Todd Ruskell, 2007

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795 E This book contains the important study material for revision before examination Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2 Stanley A. Williams, 1978 Chemistry for the IB Diploma Study and Revision Guide Christopher Talbot, Richard Harwood, 2017-07-24 Exam Board IB Level IB Subject Chemistry First Teaching September 2014 First Exam Summer 2016 Stretch your students to achieve their best grade with these year round course companions providing clear and concise explanations of all syllabus requirements and topics and practice questions to support and strengthen learning Consolidate revision and support learning with a range of exam practice questions and concise and accessible revision notes Practise exam technique with tips and trusted guidance from examiners on how to tackle questions Focus revision with key terms and definitions listed for each topic sub topic

Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston, Denniston Katherine, 2006 *No-Frills Physics* Matthew D. McCluskey, 2019-05-01 This textbook provides everything you need to get through a basic physics course It guides students through all the essentials with a concise review of the concept simple illustrations to demonstrate it worked problems to showcase how to apply it and a short quiz for self testing Whereas other standard books can be overwhelming to students the author shares what has worked with his own students trimming back unnecessary detail and focusing on the core basic physical concepts required to gain solid footing The full range of topics are addressed in a manner that facilitates understanding and will encourage students to continue forward with their learning **Study Guide to Accompany Chemical Principles, Properties, and Reactions** Kenneth L. Henold, 1984 *Basic Concepts of Chemistry, Study Guide* Leo J. Malone, 2000 The text's three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry Designed to help readers master the principles of general chemistry As a

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