

## 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

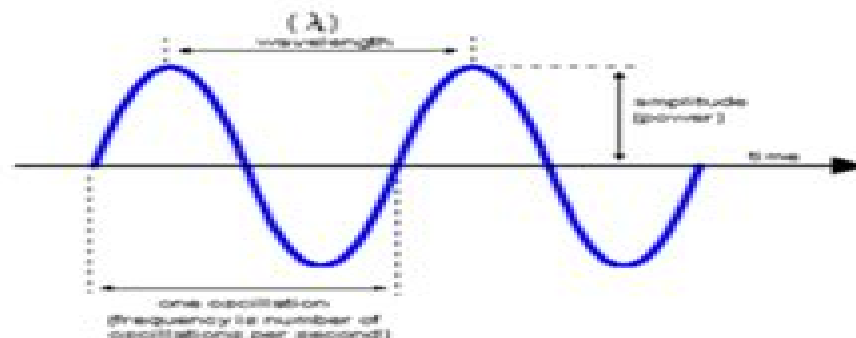
### LIGHT AND ATOMIC SPECTRA

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  $3.0 \times 10^8$  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 ( $\lambda$ )** 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 ( $\nu$ )** 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?

# Study Guide Light And Quantized Answer

**Paul A. Tipler, Gene Mosca**



## Study Guide Light And Quantized Answer:

**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 of 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.

## **General,**

**Organic, and Biochemistry Study Guide** Marcia L. Gillette, Ira Blei, Wendy Gloffke, George Odian, 2006-01-27 This study guide provides reader-friendly reinforcement of the concepts covered in the textbook. Features include Chapter outlines, Are you able to? Worked text problems, Fill-ins, Test yourself, Concept maps. Can also be used for Blei and Odian's Organic and Biochemistry.

Chemistry, Student Study Guide John A. Olmsted, Gregory M. Williams, 2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject. The text emphasizes the modern tools of chemistry while incorporating historical evidence, and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors. Also of benefit is the just-in-time presentation of key content, only providing details once they are needed. While key topics and analytical techniques have been updated, there is now an additional third chapter on chemical equilibrium. The authors have also developed an expanded and more integrated problem-solving emphasis that now incorporates a 4-step strategy throughout, complete with text icons. The whole is backed by a range of supplements, including a new illustration program, a tutorial CD, interactive learningware, an extensive Web CT component, an instructor's resource CD, and a solution CD.

Shipman Phys Sci 6e Study Guide James T. Shipman, Jerry D.

Wilson, 1990 Student Study Guide and Solutions Manual Bo Lou, 2002-08 *Study Guide and Student Solutions Manual*

Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics. The new edition features an unrivaled suite of media and on-line

resources that enhance the understanding of physics Many new topics have been incorporated such as the Otto cycle lens combinations three phase alternating current and many more New developments and discoveries in physics have been added including the Hubble space telescope age and inflation of the universe and distant planets Modern physics topics are often discussed within the framework of classical physics where appropriate For scientists and engineers who are interested in learning physics     Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston,Denniston Katherine,2006     Student Study Guide & Selected Solutions Manual David D. Reid,2007     *Study Guide and Student Solutions Manual for Wilson College Physics* David Cordes,Jerry D. Wilson,John Kinard,1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics     Study Guide/Selected Solutions Manual Julie R. Frentrup,2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book     **Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway** Raymond A. Serway,Steven Van Wyk,1996     Study Guide with ActivPhysics Alan Van Heuvelen,1999     Student Study Guide to accompany Chemistry Martin Silberberg,Libby Weberg,2005-01-06     **Student Study Guide for General Physics with Bioscience Essays** Jerry B. Marion,1978     *Study Guide for Chemical Principles* Thomas Elliott Taylor,1979     **Students Study Guide** Fredeen,Pearson,2003-07     **Study Guide** Joseph J. Boyle,Douglas C. Giancoli,1998 2000 2005 State Textbook Adoption Rowan Salisbury     **Study Guide [to Accompany] General Chemistry** Dixie Goss,2002     **Study Guide for Chemical Principles, Fourth Edition, by Dickerson, Gray, Darensbourg, and Darensbourg** Patricia L. Samuel,1984

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