

Chapter 5 Study Guide

In your textbook, read about the wave nature of light.

Study your notes, charts, tables, and problems that we have completed in class.
Review information in your Science Workbook

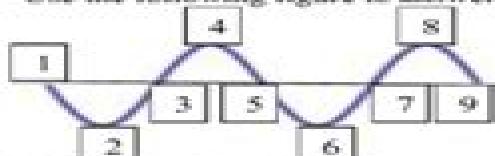
Use the following terms below once to complete the passage.

Amplitude	Energy	Frequency	Hertz
Light	Wave	Wavelength	Speed

Electromagnetic radiation is a kind of (1) Energy that behaves like a(n) (2) Wave as it travels through space. (3) Light is one type of electromagnetic radiation. Other examples include x-rays, radio waves and microwaves.

All waves can be characterized by their wavelength, frequency and (4) Speed. The shortest distance between equivalent points on a continuous wave is called a(n) (5) Wavelength. The height of a wave from the origin to a crest or from the origin to the trough is the (6) Amplitude. (7) Frequency is the number of waves that pass a given point in one second. The SI unit for frequency is the (8) Hertz, which is equivalent to one wave per second.

Use the following figure to answer questions 9-10



9. Which number(s) represents one wavelength? any of the following: 2-6, 4-8, 1-5, 5-9

10. Which number(s) represent the amplitude? any of the following: 1-2, 3-4, 4-5, 6-5, ect.

11. Circle each of the following things that helped scientist discover the location of the electrons. There may be more than one correct answer.

- a. Different elements have different emission spectra.
- b. deBroglie equation predicted that all moving particles have wavelike characteristics.
- c. The Heisenberg Uncertainty Principle
- d. Schrödinger's Wave equation.

12. The minimum amount of energy that can be gained or lost by an atom is called Quantum.

13. What was the major contribution to the understanding of the atom:

Einstein: proposed that light has a dual nature (particle and wave). Beam of light made of bundles of energy called photons. Photons with energy above the threshold will cause the photoelectric effect.

Planck: determined that matter gains or loses energy in small amounts called quantum.

Study Guide Light And Quantized Answer

Alan Van Heuvelen

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 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. Frentrop, 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

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Guide for Chemical Principles Thomas Elliott Taylor, 1979 **Students Study Guide** Fredeeen, Pearson, 2003-07 **Study**

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