# Physical Science—Light and Color

- The Nature of Light
  - a. Theories of light
    - Particle theory of light—the idea that light is a stream of physical particles—proposed by Sir Isaac Newton in his book Optiks
    - Wave theory of light—lights consists of electromagnetic waves not particles; two transverse oscillating at right angles to each other—demonstrated by James Clerk Maxwell
    - iii. Dual nature of light—called the quantum theory of light—that light is electromagnetic waves traveling as photons (tiny bundles or packets of energy); when interacting with matter, light acts like photons, when traveling through space, photons act like electromagnetic waves
  - b. Light and color
    - Visible light—the frequencies of electromagnetic spectrum that the eye can detect (this is a very small portion of all light)
      - Color is a the perception of frequency: red, orange, yellow, green, blue, violet
      - 2. White—all the colors
      - 3. Black-absence of visible light
    - ii. Additive primary colors-red, green, blue
    - iii. Subtractive primary colors-magenta, cyan, yellow
- The Behavior of Light
  - a. Reflection of light
    - Convex mirror—mirror is on the outside of a spherical surface.
    - iii. Concave mirror—mirror is on the inside of a spherical surface (picture a headlight on a car)
  - b. Refraction—bending of light as it passes through a different medium
    - Applications: eyeglasses, contact lenses, cameras, binoculars, magnifying glass
    - ii. Lens-a piece of glass designed to bend light rays
    - iii. Natural occurrences of refraction: mirage, scintillation, rainbow
  - Interference—constructive and destructive
  - d. Diffraction—for example, the blurring at the edge of a shadow
- III. Electromagnetic Radiation: radio waves, microwaves, infrared waves, visible light, ultraviolet waves, x-rays, gamma rays (the higher the frequency, the more powerful the wave)
  - Radio waves—used for many forms of communication: radio, television, cellular phones
  - Microwaves—used in microwave ovens, satellite communications, GPS, radar (used to measure the distance and direction of faraway objects)
  - Infrared waves—also known as <u>heat rays</u>, used by heat lamps, and infrared video cameras

# **Physical Science Chapter 12 Study Guide Answers**

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#### **Physical Science Chapter 12 Study Guide Answers:**

Barron's Science 360: A Complete Study Guide to Physics with Online Practice Barron's Educational Series, Kenneth Rideout, 2021-09-07 Barron's Math 360 Physics is your complete go to guide for everything physics This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you ll find Comprehensive Content Review Begin your study with the basic building blocks of physics and build as you go Topics include motion forces electricity magnetism and introduction to nuclear physics and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come Study Guide to Accompany: Fundamentals of Physical Science Six Edition Arthur Beiser,1971 Class 6 Science Questions and Answers PDF Arshad Igbal, The Class 6 Science Quiz Questions and Answers PDF 6th Grade Science Competitive Exam Questions Chapter 1 16 Practice Tests Grade 6 Science Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Class 6 Science Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Class 6 Science Quiz PDF book helps to practice test questions from exam prep notes The Grade 6 Science Quiz Questions and Answers PDF eBook includes revision quide with verbal quantitative and analytical past papers solved tests Class 6 Science Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Air and atmosphere atoms molecules mixtures and compounds cells tissues and organs changing circuits dissolving and soluble forces habitat and food chain how we see things introduction to science living things and environment micro organisms physical quantities and measurements plant growth plant photosynthesis and respiration reversible and irreversible changes sense organ and senses workbook for middle school exam's papers Science Interview Questions and Answers PDF Download free eBook's sample covers beginner s solved questions textbook s study notes to practice online tests The Class 6 Science Interview Questions Chapter 1 16 PDF book includes middle school question papers to review practice tests for exams Class 6 Science Practice Tests a textbook s revision guide with chapters tests for NEET Jobs Entry Level competitive exam 6th Grade Science Questions Bank Chapter 1 16 PDF Book covers problems solving in self assessment workbook from science textbook and practical eBook chapter wise as Chapter 1 Air and Atmosphere Questions Chapter 2 Atoms Molecules Mixtures and Compounds Questions Chapter 3 Cells Tissues and Organs Questions Chapter 4 Changing Circuits Questions Chapter 5 Dissolving and Soluble Questions Chapter 6

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National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers. The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the quide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction CliffsNotes Praxis II: Middle School Science (0439) Glen Moulton, 2013-05-21 Your complete guide to a higher score on Praxis II Middle School Science The Praxis II Middle School Science 0439 exam is designed to measure the knowledge and competencies necessary for a beginning teacher of middle school science The 2 hour Praxis II Middle School Science 0439 exam consists of three constructed response essays and 90 multiple choice questions divided into the following content categories scientific methodology basic principles of science physical sciences life sciences earth space sciences and science technology society In CliffsNotese Praxis II Middle School Science two practice tests with complete answers and explanations help you pinpoint areas for further study while reviews and exercises address all of the test topics you ll encounter on exam day Plus proven test taking strategies help you score

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