

Physical Science— Light and Color

- I. The Nature of Light
 - a. Theories of light
 - i. Particle theory of light—the idea that light is a stream of physical particles—proposed by Sir Isaac Newton in his book *Opticks*
 - ii. Wave theory of light—light 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
 - i. Visible light—the frequencies of electromagnetic spectrum that the eye can detect (this is a very small portion of all light)
 1. 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
- II. The Behavior of Light
 - a. Reflection of light
 - i. Convex mirror—mirror is on the outside of a spherical surface
 - ii. 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
 - i. 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
 - c. 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)
 - a. Radio waves—used for many forms of communication: radio, television, cellular phones
 - b. Microwaves—used in microwave ovens, satellite communications, GPS, radar (used to measure the distance and direction of faraway objects)
 - c. Infrared waves—also known as heat rays, used by heat lamps, and infrared video cameras

Physical Science Chapter 12 Study Guide Answers

A Loxley



Physical Science Chapter 12 Study Guide Answers:

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Arthur Beiser, 1971

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Primary Science Curriculum Guide John Stringer, 2013-06-17 This guide provides trainee teachers with an insight into the nature and teaching of primary science It aims to introduce you to the ways in which children learn science and to the science itself Each Unit can be studied independently or used to support prepare for school experiences You will be directed towards additional reading which will develop or confirm the subject knowledge you will need to achieve QTS the curriculum guide is up to date revised to take account of Curriculum 2000 and accepted good practice in primary science teaching and learning It is also flexible many of the Units are stand alone They can be undertaken in any order at your own pace to complement school experiences The Units are practical and feasible the activities suggested can be undertaken by the non specialist in many cases without specialized equipment or access to large numbers of pupils The guide is comprehensive covering all the primary science elements in Curriculum 2000 and giving background information into other aspects of primary science teaching It is also supportive the guide suggests further texts to support trainees own understanding of the scientific and pedagogical concepts involved Additional reading draws on the TTA s list of approved key texts The original text was piloted by students following a distance learning PGCE course It has been revised and updated in line with their comments and to meet Curriculum 2000 and Curriculum Guidance for the Foundation Stage The text was initially developed as a core text for the part time distance learning course at Liverpool Hope and is designed for trainee teachers on distance learning and flexible routes returning converting or overseas teachers

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Pediatric Nurse Practitioner Certification Review Guide: Primary Care JoAnne Silbert-Flagg, Elizabeth D. Sloan, 2010-02-16

Cracking the AP Physics B and C Exams Steven A. Leduc, Princeton Review, 2004 The Princeton Review realizes that acing the AP Physics B C Exams is very different from getting straight A s in school We don t try to teach you everything there is to know about physics only what you ll need to score higher on the exam There s a big difference In Cracking the AP Physics B C Exams we ll teach you how to think like the test makers and Eliminate answer choices that look right but are planted to fool you Improve your score by knowing in advance what physics topics are most likely to be tested Memorize complicated physics concepts using simple techniques Ace the Free Response section by practicing on our sample questions This book includes 2 full length practice AP Physics B C tests All of our practice test questions are like the ones you ll see on the actual exam and we fully explain every answer

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