

## Physical Science— Light and Color

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- 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

**Ian Pickup**



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we affirm that his doubt brought the hearts of believers to knowledge the conversion of thomas doubt into faith led him to the clearest confession of christ s divinity addressing jesus as m y lord and my god

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web 27 then he said to thomas put your finger here see my hands reach out your hand and put it into my side stop doubting and believe 28 thomas said to him my lord and my god 29 then jesus told him because you have seen me you have believed blessed are those who have not seen and yet have believed