

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—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
 - 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

Rosina Ehmann



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web sep 20 2013 the pattern includes instructions on how to make half square triangles from squares which means all those leave points will end up where they are supposed to and it teaches you how to cut on the lengthwise grain to create log cabin strips that don t stretch my favorite part of the pattern is constructing the blocks in sets of four

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web leaf scatter quilt one striking fabric is sometimes all you need as with the leaf scatter quilt pattern this beauty graces the cover of the september october issue of love of quilting and features the autumn leaves fabric collection from benartex the modern newsprint fabric is just the thing to update this classic pattern

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web using fall prints from various collections i made 6 maple leaf blocks then around each block i added 1 5 logs in red orange brown and forest green prints and fall patterns i arranged the blocks so they look like they are falling through they air the back is made up of large pieces of autumn themed prints

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web we haven t seen this combination of autumn splendor and log cabin patterns before but we like it be sure to note the wide variety of fabrics used for the autumn leaves and the fine patchwork piecing the burgundy sash has a suede like appearance very sharp made in lancaster by an amish woman

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web quilt a beautiful autumn design with a full range of fall colors striking leaf designs pop between an innovative arrangement of log cabin blocks and the lovely combination of rich and natural colors will warm your home through the cooler months finished size 77 x 93 designed by scott a flanagan

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