

Light Crossword Clues

ACROSS

1 Mirrorlike reflection
 6 A beam of light incident from a denser to a lighter medium at an angle greater than critical undergoes total _?_ reflection
 11 Charged atom
 12 _?_ Jones Industrial Average
 13 Short for “company”
 14 An “illusion” resulting from gradual refraction in the atmosphere due to a temperature gradient
 15 The nature of a material that doesn’t impede the passage of light
 19 The Show Me State
 20 30-second spot on TV, for example
 21 Their love was like the tides, with a constant _?_ and flow
 24 Red, orange, yellow, green, blue, and violet comprise the visible _?_ of light
 26 The nature of a material that does not allow light to pass through
 27 Bluegrass State
 28 The Badger State, second to California in dairy production
 29 Unit often used to measure the wavelength of light waves
 32 Generic term for electromagnetic radiation, especially in the visible spectrum
 33 Ben & Jerry State
 34 Short for the SI unit of electric current
 39 Abbreviation for number
 41 Happens whenever a wave encounters a change in medium
 43 Becomes positively charged when rubbed with silk
 45 Short for “easy”
 46 Differential refraction of electromagnetic waves on the basis of their frequency
 48 Johannes _?_, author of *Harmony of the Spheres*
 49 Little Rock is the capital
 52 Physics theory of Salam, Weinberg, and Glashow that ties the forces together
 53 Shiny reflector
 55 Wavelength and wave speed change in this process, but frequency remains the same
 59 Non-permanent domicile that takes advantage of snow’s low thermal conductivity
 61 One of the so-called seven deadly sins; wanting what you don’t have
 63 Hawaiian floral necklace
 65 Red light has a greater _?_ than blue light

70 Reflection from paper, for example
 71 String tied around a finger, for example
 73 Electromagnetic waves about a centimeter long, used in communications and the culinary arts
 74 By way of
 75 Many of Shakespeare’s works were written in _?_ pentameter
 78 Headquarters
 79 Stereo vision allows us to see in three dimensions, enhancing our _?_ perception
 81 Red, blue, orange, and green, for example
 82 Determined the relationship between angle of incidence, angle of refraction, and index of refraction
 84 The First State (Dover, capital)
 87 400 nm—700 nm electromagnetic waves
 89 ¿Yo quiero _?_ Bell?
 91 The angle of incidence for which the angle of refraction is right
 92 Very high-energy electromagnetic rays
 95 Didn’t claim to invent the telescope, but didn’t bother to mention that he hadn’t
 96 Accordion dance

DOWN

2 Process by which plants use light
 3 Bring into being, as in a work of art
 4 Transparent object, often disc-shaped designed to bend light, often to a focal point
 5 Smallest state in the union
 6 c/v is the _?_ of refraction
 7 Volunteer State, home of the Grand Ole Opry
 8 Atmospheric optical phenomenon resulting from dispersion
 9 Exclamation of discovery
 10 A circled “x” is an arrow directed _?_ from you
 12 Morning condensation, especially on grass
 16 She bogied on the 16th hole: she needed five strokes and it was rated as a _?_ four
 17 What you’ll be after your 21st birthday
 18 Ten to the twelfth prefix
 22 Long-wave electromagnetic radiation used in communications
 23 Devised the calculus, mechanics, optics, and universal gravitation

25 When looking into deep space, we are looking back in _?_
 30 Hammer-driven fastener
 31 Horse’s steering cord
 35 Experimentally disproved the existence of aether
 36 Triangles with the same interior angles but different side lengths
 37 Lieutenant
 38 Constitution State (Hartford, capital)
 40 Goopy flow
 42 Visible light is a small part of the entire _?_ spectrum
 44 Acid in vinegar
 47 Drug officer, often undercover posing as a high school student
 50 Nature of material that allows the passage of light but scatters its direction of travel
 51 GUT Theorist Steven _?_
 52 Au
 54 One-way line; thin beam of light
 56 Tallahassee, capital
 57 Crimson Tide State
 58 Short for the mathematical study of right triangles
 60 $= \frac{1}{2}mv^2$
 62 Exposure to this form of electromagnetic radiation leads to melanoma
 64 Electromagnetic radiation with waves just longer than those of visible light
 66 A line perpendicular to a plane
 67 Trademark
 68 Unit named after German physicist Heinrich _?_, the first person to produce artificial radio waves
 69 Short for baseball referee
 72 Oscillation rate
 75 Climbs the walls at America’s elite institutions of post-secondary instruction
 76 A material through which waves travel
 77 Colorful _?_, the Rocky Mountain State
 80 Southernmost state
 82 The m in $y = mx + b$
 83 Tarzan’s wardrobe, a _?_ cloth
 85 Microsoft® spreadsheet program
 86 Italian electricity scientist Alessandro _?_
 88 “A long time _?_ in a galaxy far, far away.”
 90 French friend
 93 Magnesium; British sportscar
 94 Sodium