

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