

[Across]

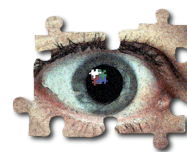
2. Arc or circle with bands of different colors
4. Photoreceptors in the eye that detect color
5. Math technique developed by Sir Isaac Newton
7. Mathematics that deals with relationships of points, lines, angles, surfaces, and solids
13. Photoreceptors in the eye that detect very dim light
15. Light just below the violet end of the visible spectrum
16. Science that deals with matter and energy and their interactions
18. Conducted early experiments with light and the color spectrum (last name)
19. We see different _____ of light as different colors
20. Able to be viewed with eye

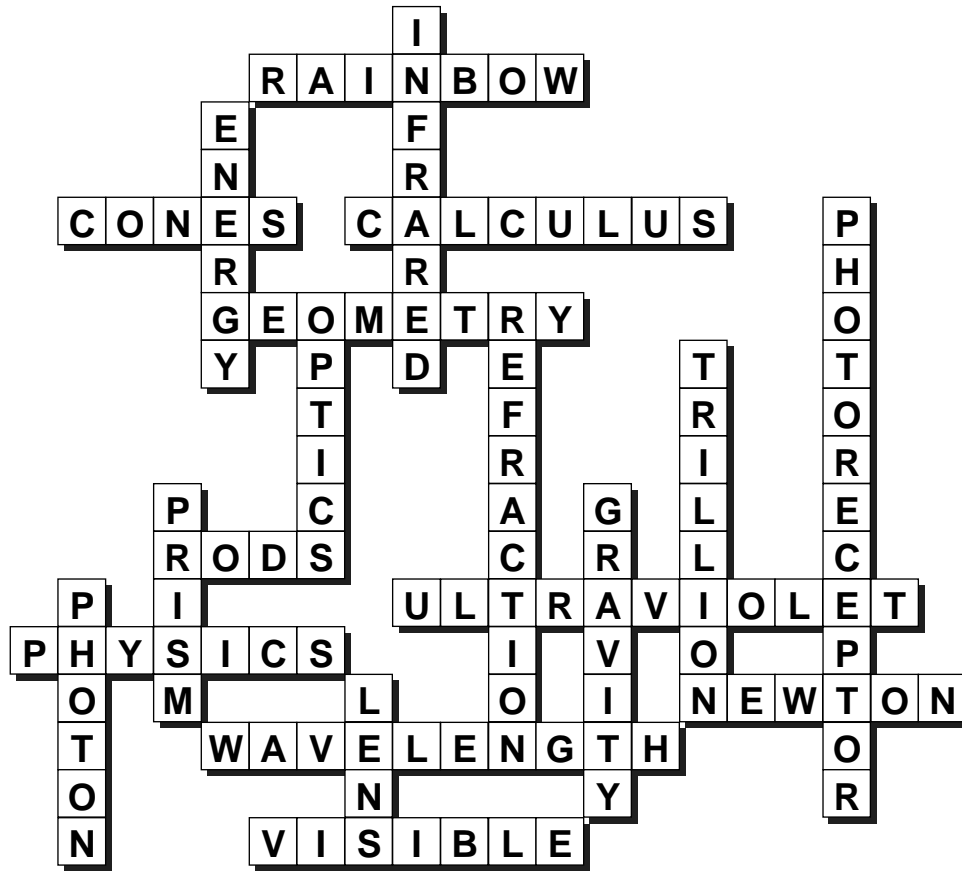
[Down]

1. Light rays beyond the red end of the visible spectrum
3. At the Earth's surface almost all the wavelengths with any significant _____ are visible.
6. Part of the eye that detects light
8. Newton's study in _____ lead to the discovery of the light spectrum
9. Bending of light when it passes from one transparent medium to another
10. 1,000,000,000,000
11. Transparent body that is used to refract and disperse a beam of light
12. Famous discovery of Sir Isaac Newton
14. Bits of light
17. Device used to direct or focus light

Try our crossword puzzle based on one of our web articles. You can learn more about light and how we see color when you read the article *Seeing Color* at the *Ask a Biologist* web address below.

(<http://askbiologist.asu.edu/research/seecolor/>)



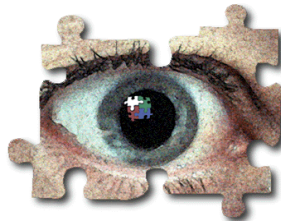


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SOLUTION

[Down]

2. "RAINBOW"
4. "CONES"
5. "CALCULUS"
7. "GEOMETRY"
13. "RODS"
15. "ULTRAVIOLET"
16. "PHYSICS"
18. "NEWTON"
19. "WAVELENGTH"
20. "VISIBLE"



1. "INFRARED"
3. "ENERGY"
6. "PHOTORECEPTOR"
8. "OPTICS"
9. "REFRACTION"
10. "TRILLION"
11. "PRISM"
12. "GRAVITY"
14. "PHOTON"
17. "LENS"

Let's see how you did. The solution above will let you see how well you did with the puzzle. Try some of the other puzzles at the *Ask a Biologist* web site listed below.