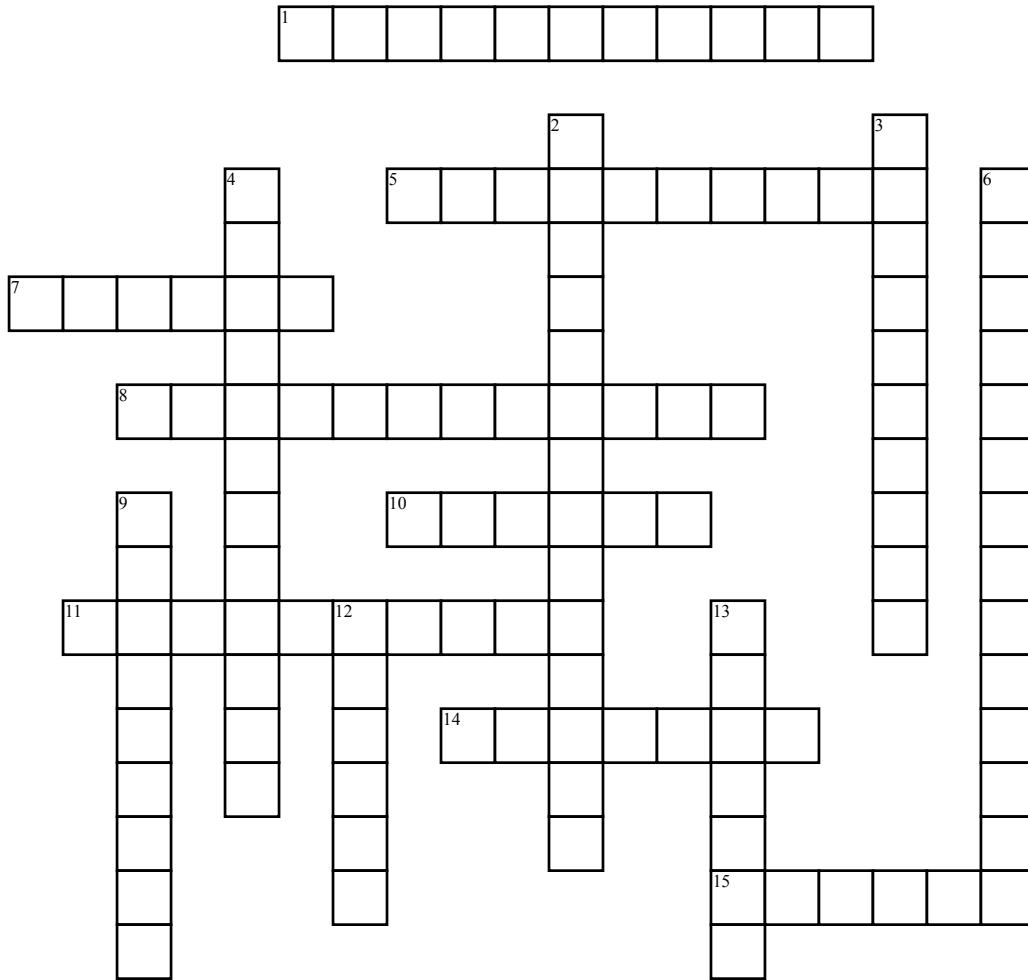


light energy crossword



Across

1. allowing light to pass through so that objects behind can be distinctly seen.

5. each of the second pair of cranial nerves, transmitting impulses to the brain from the retina at the back of the eye.

7. a layer at the back of the eyeball containing cells that are sensitive to light and that trigger nerve impulses that pass via the optic nerve to the brain, where a visual image is formed.

8. The distance light can travel in a unit of time through a given substance. Light travels through a vacuum at about 186,000 miles, or 300,000 kilometers, per second.

10. a particle representing a quantum of light or other electromagnetic radiation. A photon carries energy proportional to the radiation frequency but has zero rest mass.

11. is the bending of a wave when it enters a medium where its speed is different.

14. an arch of colors formed in the sky in certain circumstances, caused by the refraction and dispersion of the sun's light by rain or other water droplets in the atmosphere.

15. not able to be seen through; not transparent.

Down

2. refers to the strength or amount of light produced by a specific lamp source. It is the measure of the wavelength-weighted power emitted by a light source.

3. is when light bounces off an object.

4. have reflective surfaces that curve outward.

6. a wave vibrating at right angles to the direction of its propagation.

9. a law stating that the ratio of the sines of the angles of incidence and refraction of a wave are constant when it passes between two given media.

12. the transparent layer forming the front of the eye.

13. lunar rainbows are rare natural atmospheric phenomena that occur when the Moon's light is reflected and refracted off water droplets in the air.

Word Bank

rainbow

opaque

optic nerve

snells law

refraction

moonbow

photon

convex mirror

transverse wave

speed of light

Transparent

light intensity

cornea

retina

reflection