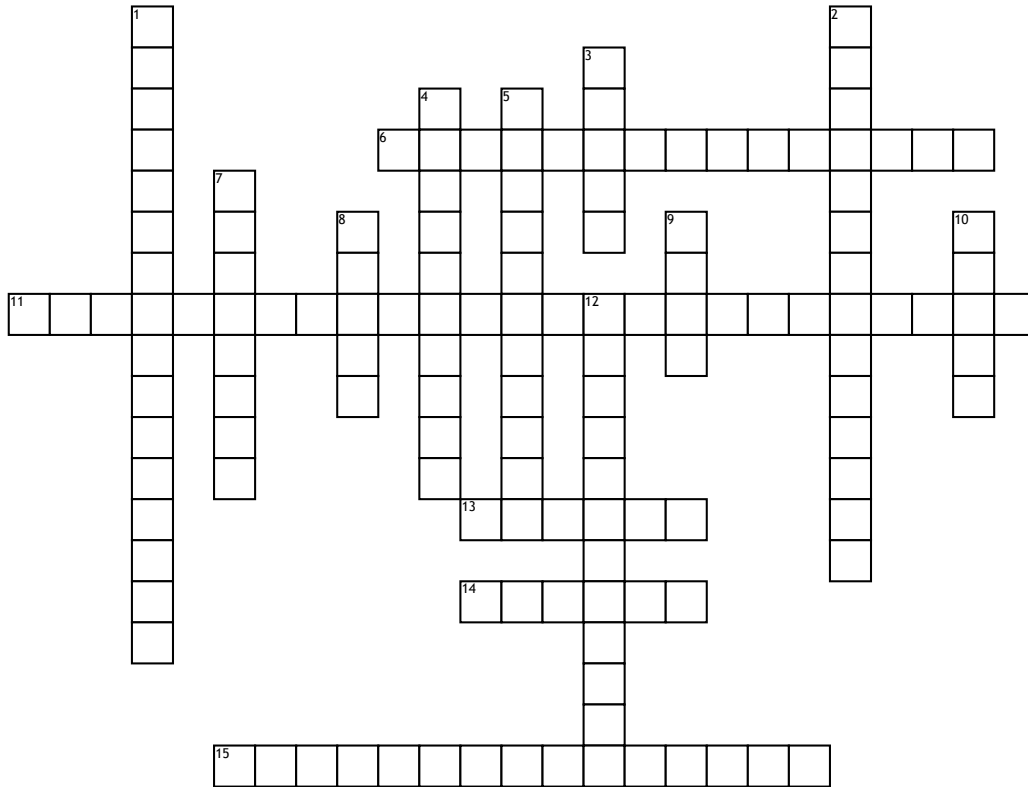


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Light & Color



## Across

6. The spread of colors seen when light passes through a prism or diffraction grating.  
 11. Excluding nuclear energy, energy cannot be created or destroyed, only changed.  
 13. Ability to do work. The scientific definition of work is moving something over a distance.  
 14. A shaded area resulting when light is blocked out by an object in its path.  
 15. Light given off from certain living things that have the ability to chemically excite the molecules in their bodies.

## Word Bank

dispersion  
 Law of Conservation of Energy  
 laser  
 color  
 light

## Down

1. Electromagnetic waves above the frequency of violet light in the visible spectrum.  
 2. Process of green plants using sunlight as the energy source to combine carbon dioxide and water to produce sugar and oxygen.  
 3. Characteristic of objects that is caused by different qualities of light being reflected or absorbed by them.  
 4. Separation of light into colors arranged according to their frequency.  
 5. Bending of a wave around a barrier.  
 7. The spread of radiation by frequency.

ultraviolet light  
 lens  
 shadow  
 bioluminescence  
 visible spectrum

8. An optical instrument that produces a beam of coherent light, with waves of the same frequency, phase, and direction.  
 9. A piece of glass or other transparent material that can bend parallel rays of light so that they cross or appear to cross at a single point.  
 10. A form of radiant energy.  
 12. Electromagnetic waves with frequencies lower than the red in the visible light spectrum.

energy  
 photosynthesis  
 diffraction  
 spectrum  
 infrared rays