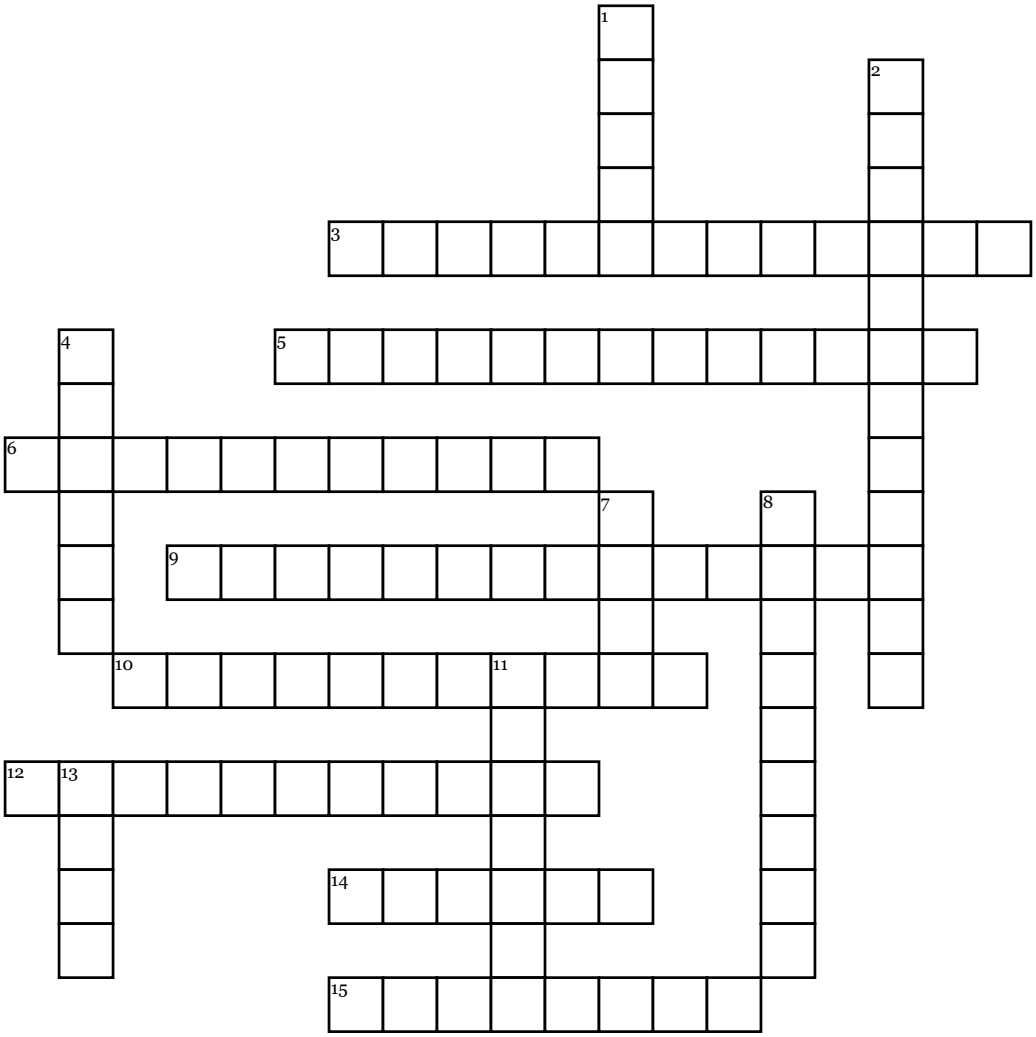
Name: _____ Date: _____

# Sun



**Across**

**3.** a layer of a star's interior where energy is primarily transported toward the exterior by means of radiative diffusion and thermal conduction, rather than by convection.

**5.** noun: nuclear fusion a nuclear reaction in which atomic nuclei of low atomic number fuse to form a heavier nucleus with the release of energy.

**6.** he strength and vitality required for sustained physical or mental activity

**9.** A region of turbulent plasma between a star's core and its visible photosphere at the surface, through which energy is transferred by convection

**10.** a brief eruption of intense high-energy radiation from the sun's surface, associated with sunspots and causing electromagnetic disturbances on the earth

**12.** the luminous envelope of a star from which its light and heat radiate.

**14.** the strength and vitality required for sustained physical or mental activity

**15.** a spot or patch appearing from time to time on the sun's surface, appearing dark by contrast with its surroundings

**Down**

**1.** the natural agent that stimulates sight and makes things visible.

**2.** a reddish gaseous layer immediately above the photosphere of the sun or another star. Together with the corona, it constitutes the star's outer atmosphere.

**4.** the rarefied gaseous envelope of the sun and other stars

**7.** the central or innermost portion of the sun

**8.** the continuous flow of charged particles from the sun that permeates the solar system.

**11.** a natural electrical phenomenon characterized by the appearance of streamers of reddish or greenish light in the sky, usually near the northern or southern magnetic pole

**13.** the quality of being hot; high temperature.

## Word Bank

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|---|---|---|---|---|
| photosphere | chromosphere | radiative zone | corona | sunspots |
| solar flares | solar wind | convection zone | nuclear fusion | heat |
| light | core | auroras | prominences | energy |

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