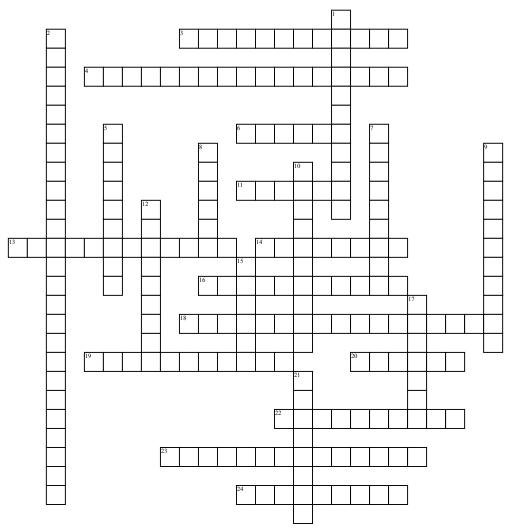
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Lifespan of the Sun



Across

- **3.** Region in the Hertzsprung- Russell diagram that most stars occupy
- **4.** How bright a star appears
- **6.** Combination of lightweight, atmoic nuclei into heavier nuclei
- 11. Cloud of interstellar gas and dust
- **13.** Is only visible during a solar eclipse when the photosphere is blocked
- **14.** Dark spots on the surface of the photosphere
- **16.** Visible surface of the sun
- **18.** How bright a star would appear if placed at a distance of 10 pc

- **19.** Two stars graviationally bound together
- **20.** Unit of measure, larger than a light year
- **22.** An arc of gas that is ejected from the chromosphere
- **23.** Patterns of stars
- **24.** Charged particles that flow throughout the solar system

Down

- 1. A collapsed star remnant
- **2.** A graph that shows the relationships of mass, luminosity, temperature and diameter

- **5.** An extremely dense object that remains after a supernova
- 7. Center of a star formation
- **8.** A pulsating star
- **9.** Violent eruptions of particles and radiation from the surface of the sun
- **10.** Energy output from the surface of a star
- **12.** Massive explosion of a star
- **15.** Outer most layer of the sun's atmosphere
- 17. Splitting of heavy atomic nuclei into smaller lighter nuclei
- **21.** Shift of position caused by the motion of observer

Word Bank

Hertzsprung-Russell diagram absolute magnitude neutron star parsec apparent magnitude supernova photosphere main sequence pulsar binary stars fission prominence solar wind black hole chromosphere fusion parallax corona protostar sunspots luminosity constellations nebula solar flares