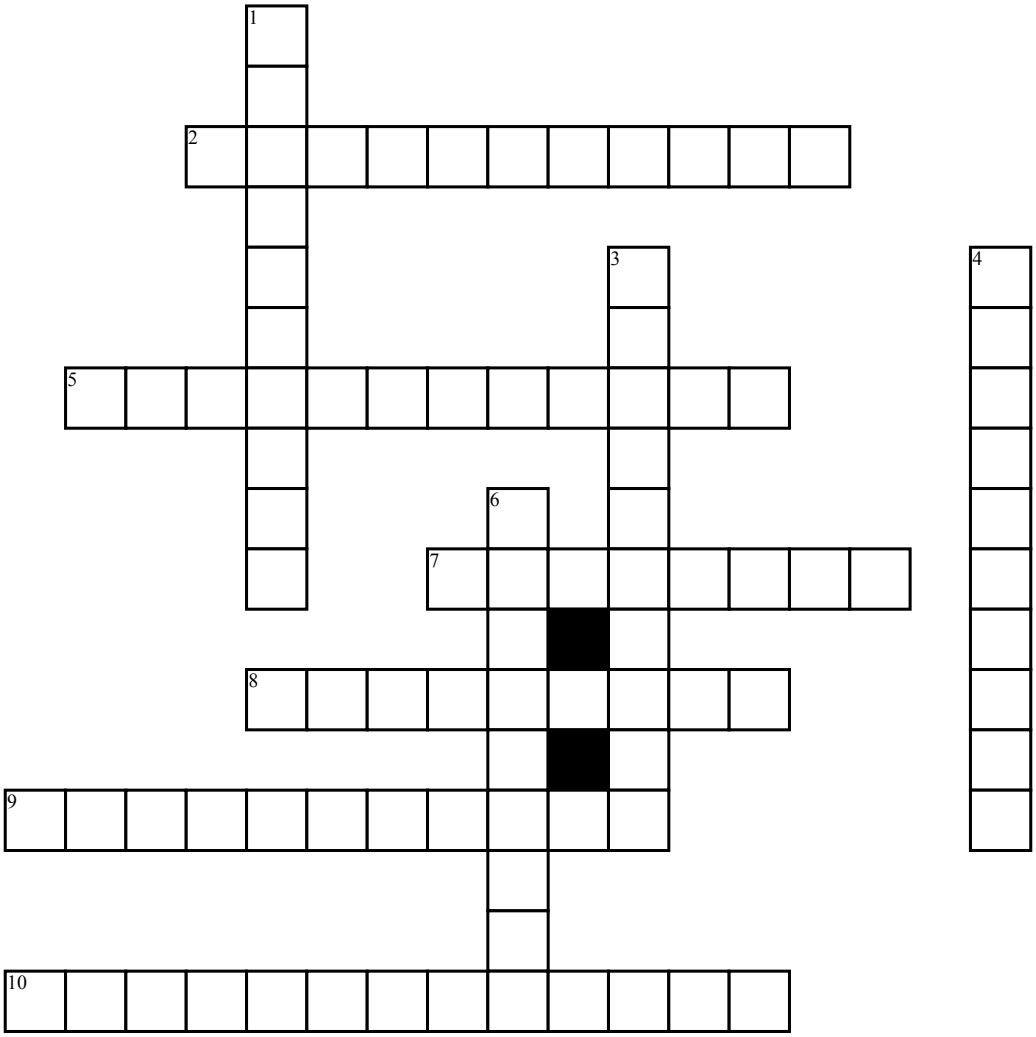
Name: _____

Types of Stars



Across

2. two stars in close proximity which orbit around their common center of mass.

5. has a mass of only between 1.35 and about 2.1 times that of our Sun, it is 60,000 times smaller than the Sun

7. small and relatively cool stars, bigger than brown dwarfs, but less than 40 - 50% of the mass of our Sun.

8. bright, giant stars, between 10 and 100 times the size of the Sun, and between 10 and 1,000 times its luminosity

9. main-sequence stars like our own Sun, typically about 80 - 100% of the size of the Sun

10. stars that grow and shrink in size periodically and appear to pulsate.

Down

1. bright, main-sequence stars with masses from 1.4 to 2.1 times the mass of the Sun

3. hypothetical stellar remnants created when a white dwarf becomes cool and dark after about ten billion years of life

4. "failed stars", which form from clouds of interstellar gas, as other stars do, but never reach sufficient mass, density and internal heat to start the nuclear fusion process.

6. luminous giant stars of low or intermediate mass (usually between 0.5 and 10 solar masses) in a late phase of stellar evolution

Word Bank

Binarystars	variablestars	redgiants	neutronstars	Yellowdwarf
Whitestars	reddwarf	browndwarf	bluegiant	Blackdwarf