

Name \_\_\_\_\_

## Stellar Diversity: Exploring the Different Types of Stars

### Short Answer Key

1. Betelgeuse is a famous red giant star in the Orion constellation.
2. White dwarfs form from the remnants of stars like the Sun after they exhaust their nuclear fuel.
3. Cepheid variables are important in astronomy because their brightness variations are directly related to their intrinsic luminosity, making them useful for measuring cosmic distances.
4. Neutron stars form from the remnants of massive stars during a supernova explosion and are incredibly dense due to the collapse of their core.
5. A binary star system consists of two stars orbiting around a common center of mass. An example is the binary star system Alpha Centauri.

