

Name _____

Stellar Diversity: Exploring the Different Types of Stars

Open-Ended Response Questions

1. Compare and contrast the Sun with a red giant star in terms of size, color, and stage of life.
2. Imagine you are an astronomer discovering a new variable star. What would you do to determine its periodicity, and why is this information important?
3. Suppose you are on a space mission to study a binary star system. Explain the challenges you might face and the valuable insights you hope to gain.
4. Discuss the lifecycle of a star, starting from its formation as a protostar and ending with its possible fate as a white dwarf or neutron star.

