

Name _____

The Brilliant Beings Called Stars

Open-Ended Response Questions

1. Compare and contrast the lifecycles of small stars (like our Sun) and large stars (supergiants). Explain the different outcomes and remnants they leave behind.
2. Imagine you are an astronomer observing two stars with different colors and temperatures: a blue supergiant and a red dwarf. Explain how you would determine their respective sizes and lifecycle stages.
3. Stars are often referred to as the "engines" of the universe due to their role in producing elements. Discuss the significance of this statement and the impact of stellar nucleosynthesis on the cosmos.
4. Constellations have been used by different cultures worldwide for navigation, timekeeping, and storytelling. Research and describe a specific constellation from any culture and explain its cultural significance and historical use.

