

Name \_\_\_\_\_

## The Fiery Heart: How the Sun Produces Energy and Heat

### Open-Ended Response Questions

1. Discuss the significance of nuclear fusion in the Sun's energy production and its role in maintaining the Sun's brightness.
2. Compare and contrast the methods of energy transport in the radiative zone and the convective zone of the Sun.
3. Explain how the Sun's energy is harnessed on Earth, both naturally and through technology.
4. Reflect on the Sun's eventual transformation into a red giant and a white dwarf. What implications might this have for our solar system?

