

Name \_\_\_\_\_

## Dancing with the Sun: The Mystery of Solar Flares and Sunspots

### Open-Ended Response Questions

1. Imagine you are a scientist studying sunspots. What kind of information would you hope to gather from observing them, and how would it benefit our understanding of the Sun?
2. Suppose you are an astronaut on a mission in space when a powerful solar flare occurs. Describe the potential dangers you might face and the precautions you would need to take.
3. How do sunspots and solar flares affect the Earth's space weather, and what measures can be taken to protect our technology and communication systems during solar flares?
4. Discuss some of the challenges scientists face when trying to predict the timing and intensity of solar flares.

