

Name \_\_\_\_\_

## Exploring the Variety of Moons in Our Solar System

### Open-Ended Response Questions

1. Imagine you are an astronaut visiting an irregular moon with an eccentric orbit. Describe the challenges you might face during your mission and the scientific discoveries you hope to make.
2. Discuss the potential implications of discovering life in subsurface oceans on icy moons like Europa. How might this discovery impact our understanding of life beyond Earth?
3. If you were in charge of planning a mission to study mini-moons, what objectives and instruments would you include in the mission plan? Explain your choices and the scientific goals of the mission.
4. Moons come in various sizes, from tiny moons like Pan to massive ones like Ganymede. How does a moon's size influence its geology and characteristics, and why is this diversity important for scientific research?

