

Name _____

Moons and Planets: Exploring the Universe's Cosmic Partnerships

Open-Ended Response Questions

1. Imagine you are an astronaut visiting Mercury, a planet without any moons. Describe what the night sky on Mercury might look like and how it differs from the night sky on Earth.
2. Discuss the potential benefits and challenges of having moons for the development of future space exploration missions, such as lunar bases or missions to Mars.
3. Moons come in various sizes and shapes, each with its unique characteristics. Explain how the presence or absence of moons can influence the geological and environmental conditions on a planet.
4. Why do you think gas giant planets tend to have more moons than terrestrial planets? What advantages might this diversity of moons offer these planets?

