

Name _____

The Sun's Gravitational Dance: How it Shapes the Planets

Open-Ended Response Questions

1. Describe the essential role of the Sun's gravity in maintaining the stability and orderliness of our solar system, providing examples of its impact on planetary orbits.
2. Reflect on the significance of understanding the Sun's gravity for space exploration and the challenges faced by spacecraft when navigating our solar system.
3. Explain the concept of solar tides on Earth, including their causes and effects, and discuss how the Sun's gravity plays a role in this phenomenon.
4. Imagine a scenario where the Sun's gravity suddenly disappeared. How would this impact the motion and stability of planets in our solar system?

