

Name \_\_\_\_\_

## Gravity Unveiled: Can It Exist Without Mass?

### Open-Ended Response Questions

1. Imagine a scenario where a spaceship is traveling through deep space far from any massive objects. How would the absence of nearby mass influence the spaceship's experience of gravity?
2. If you were to explain the concept of gravity to a younger sibling, how would you describe it in simple terms, considering the connection to mass?
3. Discuss the importance of understanding the connection between gravity and mass in fields such as astronomy and space exploration.
4. How does the concept that gravity depends on mass relate to the way we experience weight on different planets or celestial bodies with varying masses?

