

Name \_\_\_\_\_

## The Mystery of Falling Objects: What Causes Things to Drop to Earth?

### Open-Ended Response Questions

1. Imagine a planet with much greater mass than Earth. How do you think the strength of gravity on that planet would affect the motion of falling objects?
2. How is our understanding of gravity important for space exploration and the functioning of spacecraft?
3. Explain why weight varies on different celestial bodies while mass remains the same.
4. How might life on Earth be different if gravity were weaker or stronger?

