

Name \_\_\_\_\_

## Gravity Gauge: Measuring the Force on Different Planets

### Open-Ended Response Questions

1. Imagine you are an astronaut on a mission to Mars. How would knowing the strength of gravity on Mars help you plan your activities and equipment for the mission?
2. Discuss how the strength of gravity affects the way objects behave on different planets. Provide examples to support your answer.
3. What challenges do scientists face when using gravimeters to measure gravity on distant planets, and how do they overcome these challenges?
4. Why is it important for humans to understand gravity on other celestial bodies if we plan to explore space and potentially colonize other planets?

