

Name _____

Gravity Gauge: Measuring the Force on Different Planets

Short Answer Key

1. Accelerometers in gravimeters are used to detect changes in speed or acceleration, allowing them to measure how fast objects fall due to gravity.
2. Calibration means adjusting and fine-tuning the gravimeter to ensure it provides accurate measurements. It's done on Earth, where we know the gravity strength.
3. Gravity on the Moon is much weaker than gravity on Earth, measuring approximately 1.6 m/s^2 .
4. Jupiter has gravity strength closest to what the gravimeter would measure on Saturn.
5. Measuring gravity on different planets helps scientists understand the physical properties of those planets and plan for space exploration.

