

Name _____

Moon's Gravity: A Tug-of-War With Earth

Short Answer Key

1. Gravity is an invisible force that pulls objects toward each other. On Earth, it keeps us grounded and plays a fundamental role in the motion of celestial bodies.
2. The Moon's gravitational pull is about 1/6th as strong as Earth's. You would weigh less on the Moon because its gravity is weaker.
3. Astronauts on the Moon can leap higher and move more easily due to its weaker gravity. Their movements are less constrained by their own weight.
4. It is important for astronauts to adapt to different gravitational environments during space exploration because their physical health, muscle strength, and ability to perform tasks vary in low-gravity or microgravity conditions. They prepare through physical training and simulations.
5. Possible activities or experiments on the Moon include measuring the strength of gravity, testing the behavior of objects in low gravity, studying lunar rocks and soil, and conducting experiments related to lunar geology.

