

Name _____

Gravity: The Force That Keeps Us Grounded

Short Answer Key

1. A ball falls back to the ground when you drop it because of the gravitational pull between the Earth and the ball.
2. As objects move farther apart, the strength of gravity between them decreases.
3. Mass is the amount of matter in an object, while weight is the force of gravity acting on that object's mass.
4. Astronauts experience weightlessness in space because they are in freefall towards Earth, but they and their spacecraft are moving forward at the same speed, creating the sensation of floating.
5. The Moon orbits around the Earth because of the gravitational pull between the two objects. The Earth's gravity keeps the Moon in a continuous path around our planet.

