Name _____

Action and Reaction

Answer Key

1. Newton's Third Law of Motion states that for every action, there is an equal and opposite reaction.

2. The concept of "action-reaction" in this law means that when one object exerts a force (action) on another object, the second object exerts an equal force in the opposite direction (reaction).

3. This law applies to bouncing a ball because when you drop it, it hits the ground, and the ground exerts an equal and opposite force, making the ball bounce back up.

4. You move forward when you jump off a swing because you push the swing backward, and it pushes you forward with an equal and opposite reaction force.

5. Another example from everyday life where action and reaction are at play is when you paddle a canoe. As you push the water backward with the paddle, the water pushes the canoe forward, allowing it to move through the water.