

Which Law Is It?

Newton's First Law: "An object in motion tends to stay in motion, and an object at rest tends to stay at rest, unless the object is acted upon by an outside force."

Newton's Second Law: "The acceleration of an object is dependent upon the force acting on the object and the mass of the object."

Newton's Third Law: "Every action has an equal and opposite reaction."

Read each example. Write which Newton's Law of Motion it is describing.

1. You run into your friend while in-line skating, and both of you fall in opposite directions. _____
2. A book left on the table overnight is there when you return in the morning. _____
3. A baseball hit with a bat flies farther than a bowling ball hit with a bat. _____
4. A space shuttle propels gas particles out the back of the shuttle and is able to travel forward through space. _____
5. A balloon flies forward when air quickly escapes from it. _____
6. A soccer ball continues to roll until it hits something. _____
7. The bike you are riding hits a hole and stops quickly, but you fly forward over the handlebars. _____
8. A golfer hits a ping-pong ball and a golf ball. The ping-pong ball flies 10 feet and the golf ball flies 50 yards. _____
9. The clothes you left on the floor are still there when you come home from school. _____
10. A baseball hit with a wooden bat flies farther than a baseball hit with a plastic bat. _____