



Directions: Fill in the blanks using the terms listed below.

	rolling	static	momentum
	sliding	conservation of momentum	gravitational
ma		mv	weight
frictional		centripetal	downward

I. Newton's Second Law

- A. defined as: net force acting on an object causes the object to accelerate in the direction of the net force; $F =$ _____
- B. types of forces
1. _____ which opposes motion
 - a. _____—when neither object is moving
 - b. _____—when one object is sliding across another
 - c. _____—when one object is rolling across another
 2. _____ which occurs between any two objects
 - a. _____ is the gravitational force exerted on an object by Earth
 - b. an object that is shot or thrown follows a _____ path because of the force of gravity pulling it
 3. _____ which causes an object to move in a circle

II. Newton's Third Law

- A. defined as: to every action force there is an equal and _____ reaction force
- B. _____: a property a moving object has because of its mass and velocity; $p =$ _____
- C. _____: momentum transfers from one object to another with the total momentum being conserved

