

Newton's Laws of Motion

First Law:

This means that: an object at rest _____.

Example: You're standing in a bus that's starting up again:

This means that: an object in motion _____.

Example: You're sitting in a braking car:

This means that an object at rest remains at rest or an object in motion remains in motion unless: _____.

Example: Becalmed Sailboat:

Second Law:

This means that: If an object increases in speed, it _____.

This means that: If an object decreases in speed, it _____.

Also called _____.

This means that: If an object's path changes in direction, it _____.

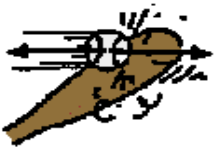
Example: Motorcycle increasing in speed:

Example: Bicycle turning a corner:

Third Law:

This means that: Forces always act _____ but in _____.

This means that: You have to identify what (**action**) is pushing on what (**reaction**)



Example: Bat hitting ball: **the baseball forces the ball to the right (action)**
and the bat forces the ball to the left (reaction)

Example: Bowling ball hitting pins:

Example: Student pushing on a wall: