

Newton's laws

1st - An object at rest remains at rest, and an object in motion remains in motion unless acted upon by an unbalanced force

Ex. A book on a shelf

A ball rolling on the ground

• Unbalanced forces = outside forces are not equal, the object will move

Inertia = tendency of an object to resist a change in direction

Ex. - You fly forward when the brakes are

quickly applied when riding in a car

- Water in a cup spills when you stop walking

Draw a picture below that shows an example of Newton's 1st Law:

• Balanced forces = no movement, no change in motion
• Unbalanced forces = change in the direction of the greatest force

• Net force = the combination of 2 or more forces