

Newton's Laws

- Objective – To learn about Newton's three laws of motion.

Newton's Laws

- 1st Law: An object will remain at rest or moving at a constant velocity unless it is acted upon by an unbalanced force.

Newton's Laws

- This is often called the Law of Inertia.

Newton's Laws

- 2nd Law: Acceleration depends on the net force acting on the object and on the object's mass.

Newton's Laws

- Net force =

Mass X Acceleration

Newton's Laws

- 3rd Law: If 1 object exerts a force on another object, then the 2nd object exerts a force of equal strength in the opposite direction on the 1st object.

Newton's Laws

- For every action there is an equal but opposite reaction.