Dynamics

Newtons Law

* **First Law** – An object at rest will remain this way unless it is acted upon by a force
* And object that is moving will continue to move at the same speed and in the same direction unless an unbalanced force acts upon it
* **Second Law** – An object will accelerate in the direction of an unbalanced force acting upon it. The size of this acceleration depends upon the mass of the object and the size of the force acting.
* **Third Law** – For every action force there is an equal and opposite re-action force

Formula

Second Law - Force=mass x acceleration

Third Law - Fab = -Fba

Contact and non-contact forces

All forces discussed so far are contact forces

Examples of non-contact forces include Magnetic, gravitational and electric forces