Balanced and Unbalanced Forces

balanced forces

if object is not moving it will

remain **stationary**

if object already moving it will move at a steady speed

· unbalanced forces

object will accelerate if larger force is in direction object is moving object will decelerate if larger force is in the opposite direction it is moving

Newton's Second Law

- Force(N)=mass(kg) x acceleration(m/s²)
- Mass how much matter there is, measured in kg
- Weight the force when gravity acts on a mass, measured in N
- On Earth there is 10N of weight acting on every 1kg of mass so 12kg of mass will have a weight of 120N