

Forces (including weight) are measured in **Newtons (N)**

Mass is measured in **kilograms (kg)**

Forces

Key Words

Newton (N)

Balanced / Unbalanced

Accelerate / Decelerate

Upthrust

Gravity (weight)

Friction (air/water resistance)

Speed

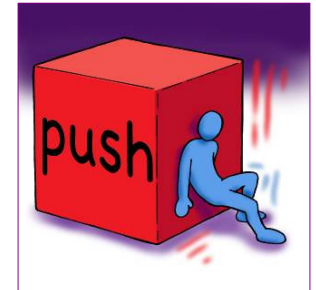
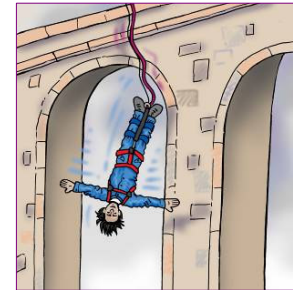
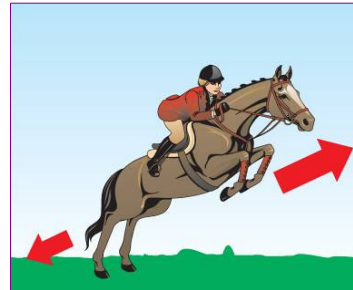
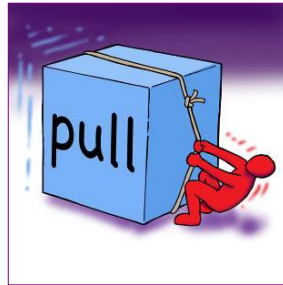
Pressure

Moment (turning force)

Motion

Balanced forces

Object stays still or moves at a constant speed



Unbalanced forces

Object changes speed or direction

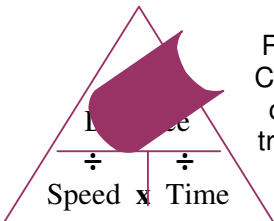
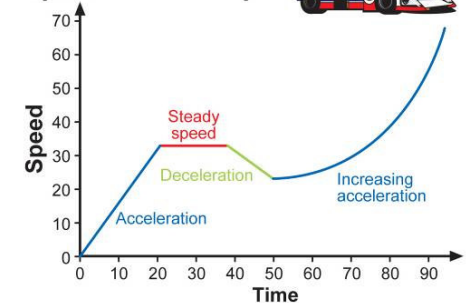
making calculations

$$\text{Speed (m/s)} = \frac{\text{distance (m)}}{\text{time (s)}}$$

$$\text{Pressure (N/m}^2\text{)} = \frac{\text{force (N)}}{\text{area (m}^2\text{)}}$$

$$\text{Moment (Nm)} = \text{force (N)} \times \text{distance (m)}$$

Speed - Time Graph



Remember:
Cover up the
one you're
trying to find
out