1 Work:

$$W = F \times s \tag{kg m}^2 s^{-2}$$

2 Change in Potential Energy:

$$\Delta G = mgh \tag{J}$$

Where m is an object's mass (kg), g the acceleration (m s⁻²) due to gravity and h the height (m).

Kinetic Energy: 3

$$E_k = \frac{1}{2}mv^2 \tag{J}$$

Where m is an object's **mass** (kg) and v its **velocity** (m s⁻¹).

Power:

$$P = \frac{E_c}{t} \tag{W}$$

Where E_c is the **energy converted** (J) and t the Where F is the **tractive force** (N) and v the time of conversion (s).

velocity $(m s^{-1})$.