

Physics: Motion & Energy

1ST EQUATION

$$v = u + at$$

2ND EQUATION

$$s = ut + \frac{1}{2}at^2$$

3RD EQUATION

$$v^2 = u^2 + 2as$$

NEWTON'S 2ND LAW

$$F = ma$$

MOMENTUM

$$p = mv$$

WORK

$$W = Fs \cos\theta$$

KINETIC ENERGY

$$KE = \frac{1}{2}mv^2$$

POTENTIAL ENERGY

$$PE = mgh$$