

$$F = ma$$

$$W = mg$$

$$g = 10 \text{ m} / \text{s}^2$$

$$a = \frac{\Delta v}{t}$$

$$v_{ave} = \frac{d}{t}$$

$$d = \frac{1}{2} at^2$$

$$v = at$$

$$F = G \frac{m_1 m_2}{r^2}$$

$$1000 \text{ m} = 1 \text{ km}$$

$$1 \text{ km} = 0.622 \text{ mi}$$

$$1 \text{ hr} = 3600 \text{ s}$$

$$1 \text{ m} = 3.28 \text{ ft}$$

$$W = F_{\parallel} d \text{ (work)}$$

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

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

$$PE = mgh$$

$$p = mv$$

$$\Delta p = F \Delta t$$