

## Earth Science 11 – Formula & Data Sheet

$$F_g = mg \text{ (approx)} \quad F_g = \frac{Gm_1m_2}{r^2} \text{ (general)}$$

$$g = 9.80 \text{ m/s}^2$$

$$c = 3.00 \times 10^8 \text{ m/s}$$

$$r_{\text{earth}} = 6.38 \times 10^6 \text{ m}$$

$$r_{\text{moon}} = 1.74 \times 10^6 \text{ m}$$

$$m_{\text{earth}} = 5.98 \times 10^{24} \text{ kg}$$

$$m_{\text{moon}} = 7.35 \times 10^{22} \text{ kg}$$

$$m_{\text{sun}} = 1.98 \times 10^{30} \text{ kg}$$

$$1 \text{ in} = 2.54 \text{ cm}$$

$$1 \text{ mile} = 1609 \text{ m}$$

