

**G** Giga ( $10^9 = 1,000,000,000$ )

**M** Mega ( $10^6 = 1,000,000$ )

**k** kilo ( $10^3 = 1,000$ )

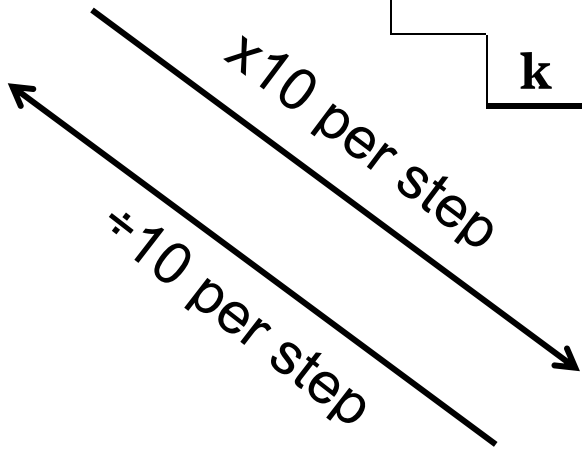
**Base Unit (no prefix)** ( $10^0 = 1$ )

**c** centi ( $10^{-2} = 0.01$ )

**m** milli ( $10^{-3} = 0.001$ )

**μ** micro  
( $10^{-6} = 0.000001$ )

nano ( $10^{-9} = 0.000000001$ ) **n**



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

$$m = \frac{2E_k}{v^2}$$

$$v = \sqrt{\frac{2E_k}{m}}$$

$$E_g = mg\Delta h$$

$$m = \frac{E_g}{g\Delta h}$$

$$g = \frac{E_g}{m\Delta h}$$

$$\Delta h = \frac{E_g}{mg}$$

Gravity on Earth:

$$g = 9.8 \frac{m}{s^2}$$