

## Equalities and #s to know by heart for Physics

Prefixes    centi c 1/100    milli m 1/1000    micro  $\mu$  1/1,000,000    nano n E-9    kilo k 1000    mega M  $10^6$

### Length

1000mm = 1m      5280 ft = 1 mi = approx 1609m

100cm = 1m      12 in = 1ft

1km = 1000m    3 ft = 1 yard

10mm = 1 cm    2.54cm = in

### Volume

1cc = 1ml = 1cm<sup>3</sup>

1000 cm<sup>3</sup> = 1000mL = 1 L

### mass

1000g = 1 kg

1000mg = 1 g

### time

60 s = 1min

60 min = 1hr

On earth 1kg weighs 9.8N, approx 2.2lbs

Circumference of a circle is  $\pi d$

Area of circle is  $\pi r^2$

Density of water is 1 g/ml = 1 g/cm = 1000 kg/m<sup>3</sup>