# UNIT CONVERSION

$$10^3 = 1000$$

$$10^6 = 1000000$$

$$10^{-3} = \frac{1}{10^3} = \frac{1}{1000}$$

$$10^{-6} = \frac{1}{10^6} = \frac{1}{1000000}$$

| | | | |
|---|---|---|---|
| DECA | $= 10^1$ | $\longrightarrow$ | [D] |
| HECTO | $= 10^2$ | $\longrightarrow$ | [H] |
| KILO | $= 10^3$ | $\longrightarrow$ | [K] |
| MEGA | $= 10^6$ | $\longrightarrow$ | [M] |
| GIGA | $= 10^9$ | $\longrightarrow$ | [G] |
| TERA | $= 10^{12}$ | $\longrightarrow$ | [T] |

| | | | |
|---|---|---|---|
| deci | $= 10^{-1}$ | $\longrightarrow$ | [d] |
| centi | $= 10^{-2}$ | $\longrightarrow$ | [c] |
| milli | $= 10^{-3}$ | $\longrightarrow$ | [m] |
| micro | $= 10^{-6}$ | $\longrightarrow$ | [$\mu$] |
| nano | $= 10^{-9}$ | $\longrightarrow$ | [$\eta$] |
| pico | $= 10^{-12}$ | $\longrightarrow$ | [$\rho$] |

LENGTH:

1cm  =  $1 \times 10^{-2}$  m

5mm  =  $5 \times 10^{-3}$  m

10dm =  $10 \times 10^{-1}$  m

MASS:

1mg  =  $1 \times 10^{-3}$  gram

4$\mu$g  =  $4 \times 10^{-6}$  g

10cg  =  $10 \times 10^{-2}$  g

TIME:

3$\eta sec$ =  $3 \times 10^{-9}$  sec

2$\mu s$  =  $2 \times 10^{-6}$  s

4ms   =  $4 \times 10^{-3}$  s

micro -6

nano -9

pico -12

-1  deci

-2 centi

-3 milli

BYTES:

$1Kb = 1 \times 10^3$ bytes

$5Mb = 5 \times 10^6$ bytes

$10Gb = 10 \times 10^9$ bytes

$1TB = 1 \times 10^{12}$ bytes

LENGTH & MASS:

$1Km = 1 \times 10^3$ m

$4Kg = 4 \times 10^3$ g

Volume:

$3cm^3 = 3 \times (10^{-2})^3 \; m^3$

$2dm^3 = 2 \times (10^{-1})^3 \; m^3$

$4 \; cm^2 = 4 \times (10^{-2})^2 \; m^3$

MEGA 6

GIGA 9

TERA 12

1 DECA

2 HECTO

3 KILO