

$10^{-2}$	Centi	c
$10^{-3}$	milli	m
$10^{-6}$	micro	$\mu$
$10^{-9}$	nano	n
$10^{-12}$	pico	p

\* Dimensional Analysis :-

ex: Let  $D = \alpha t$

$[D] = m$  ,  $[t] = s$  , Find  $[\alpha] ??$

$[D] = [\alpha t] = m$

$[\alpha] [t] = m \Rightarrow [\alpha] s = m$

$[\alpha] = m/s$

ex:  $V = V_0 + \beta t$

$[V] = m/s$  ,  $[V_0] = m/s$  ,  $[t] = s$

Find  $[\beta] ??$

$[V] = [V_0] + [\beta t]$   
 $m/s = m/s + \underbrace{[\beta t]}_{m/s} \Rightarrow [\beta] s = m/s$   
 $\boxed{[\beta] = m/s^2}$