The seven blocks

Every unit in physics is built from these seven.

THE SEVEN BASE QUANTITIES

Length metre, m	[L]	Distance light covers in 1/299 792 458 of a second.
Mass kilogram, kg	[M]	Set by fixing h = 6.62607015 × 10^{-34} J s.
Time second, s	[T]	9 192 631 770 vibrations of a caesium atom's microwave light.
Electric current ampere, A	[A]	Set by fixing e = 1.602176634 × 10^{-19} C.
Temperature kelvin, K	[K]	Set by fixing k_B = 1.380649 × 10^{-23} J/K.
Amount of substance mole, mol	[mol]	Exactly 6.02214076 × 10^{23} particles of one kind.
Luminous intensity candela, cd	[cd]	540 THz light at 1/683 of a watt per steradian.

STACK THE BLOCKS TO BUILD ANY QUANTITY

Velocity

$$\frac{L}{T}$$

$[L\,T^{-1}]$

m s^{-1}

Force

$$\frac{M\,L}{T^2}$$

$[M\,L\,T^{-2}]$

kg m s^{-2}

Pressure

$$\frac{M}{L\,T^2}$$

$[M\,L^{-1}\,T^{-2}]$

kg m^{-1} s^{-2}