

Common Units

Mass: kg

Time: s

Energy: J

Force: N

Weight: N

Gravitational Field Strength: N/kg

Work done: J

Extension: m

Distance: m

Speed: m/s

Velocity: m/s

Acceleration: m/s^2

Kinetic Energy: J

Gravitational Potential Energy: J

Gravitational Field Strength: N/kg

Energy Transferred: J

Power: W

Efficiency: no units or x 100%

Wavespeed: m/s

Frequency: Hz

Wavelength: m

Charge Flow: C

Current: A

Resistance: Ω

Potential Difference: V

Density: g/cm^3

Volume: cm^3

Temperature: $^{\circ}\text{C}$

Elastic potential Energy: J

Period: s

Thermal Energy: J

Specific Heat Capacity: $\text{J/kg}^{\circ}\text{C}$

Specific Latent Heat: J/kg

Unit Conversions

$\text{g} \div 1000 \rightarrow \text{kg}$

minute x 60 \rightarrow s

$\text{mm} \div 1000 \rightarrow \text{m}$

$\text{cm} \div 100 \rightarrow \text{m}$

$\text{nm} \div 1000 \rightarrow \text{mm}$

$\mu\text{m} \div 1000 \rightarrow \text{nm}$

$\text{MJ} \times 1000 \rightarrow \text{kJ}$

$\text{kJ} \times 1000 \rightarrow \text{J}$

$\text{MJ} \times 1000000 \rightarrow \text{J}$

$\text{dm}^3 \times 1000 \rightarrow \text{cm}^3$

SI Units and Standard Form

Multiplying Factor	SI Prefix	Standard Form
1000000	Mega (M)	$\times 10^6$
1000	kilo (k)	$\times 10^3$
0.001	milli (m)	$\times 10^{-3}$
0.000 001	micro (μ)	$\times 10^{-6}$
0.000 000 001	nano (n)	$\times 10^{-9}$

Significant figures

Give your answer to 2 significant figures:

3342 \rightarrow 3300

3362 \rightarrow 3400

4.56 \rightarrow 4.6

0.03423 \rightarrow 0.034