

HELP WITH THE 'RELATIONSHIPS SHEET'

UNDERSTANDING QUANTITIES, SYMBOLS AND UNITS

Symbol	Quantity	Unit & Symbol	
<i>a</i>	acceleration	ms^{-2}	metres per second per second
A	activity	Bq	becquerels
A	area	m^2	square metres
<i>c</i>	specific heat capacity	$\text{J kg}^{-1} \text{ }^\circ\text{C}^{-1}$	joules per kilogram per degree Celsius
<i>d</i>	distance	m	metres
<i>D</i>	absorbed dose	Gy	grays
<i>E</i>	energy	J	joules
<i>E_h</i>	heat energy	J	joules
<i>E_k</i>	kinetic energy	J	joules
<i>E_p</i>	potential energy	J	joules
<i>E_w</i>	work done	J	joules
<i>f</i>	frequency	Hz	hertz
<i>F</i>	force	N	newtons
<i>g</i>	gravitational field strength	N kg^{-1}	newtons per kilogram
<i>h</i>	height	m	metres
<i>H</i>	equivalent dose	Sv	sieverts
<i>\dot{H}</i>	equivalent dose rate	Sv s^{-1} etc...	(many possible units)
<i>I</i>	current	A	amps
<i>l</i>	specific latent heat	J kg^{-1}	joules per kilogram

Symbol	Quantity	Unit & Symbol	
m	mass	kg	kilograms
N	Number of radioactive nuclei decaying	(no units)	
p	pressure	Pa	pascals
P	power	W	watts
Q	charge	C	coulombs
R	resistance	Ω	ohms
R_T	total resistance	Ω	ohms
s	displacement	m	metres
t	time	s	seconds
T	period	s	seconds
T	temperature	K	kelvin
ΔT	change in temperature	$^{\circ}\text{C}$	degrees Celsius
u	initial velocity	ms^{-1}	metres per second
v	velocity (or final velocity)	ms^{-1}	metres per second
\bar{v}	average velocity	ms^{-1}	metres per second
V	volume	m^3	metres cubed
V	voltage	V	volts
V_s	supply voltage	V	volts
W	weight	N	newtons
λ	wavelength	m	metres
ω_R	radiation weighting factor	(no units)	