

Compound Measures Listed in the OCR Gateway GCSE Physics Revision and Classroom Companion

A Maths/Physics Faculty Production

potential difference (V) Volts	
current (I) Amps	x resistance (R) Ohms
V = IR	

force (F) Newtons	
mass (m) kg	x acceleration (a) metres / second ²
F = ma	

weight Newtons	
Mass (m) kg	x gravitational field (g) Newtons / kilogram
weight = mg	

distance (d)	
speed (s)	x time (t)
d = st	

charge (Q) Coulombs	
current (I) Amps	x time (t) seconds
Q = It	

momentum (M) kg m / s	
mass (m) kg	x velocity (v) metres / second
M = mv	

momentum change (mv ₂ - mv ₁) kg m / s	
force (F) Newtons	x time (t) seconds
ΔM = Ft	

change in speed (v - u) metres / second	
acceleration (a) metres / second ²	x time taken (t) seconds
(v - u) = at	

energy (E) Joules	
current x time (It) Coulombs	x potential difference (V) Volts
E = ItV	

work (W) Joules	
force (F) Newtons	x distance (d) metres
W = Fd	

kinetic energy (E _k) Joules	
½ mass kilograms	x velocity ² (v ²) metres / second
E _k = ½mv ²	

wave velocity (v) metres / second	
wavelength (λ) metres	x frequency (f) Hertz (cycles/second)
v = λf	

power (W) Watts	
current (I) Amps	x potential difference (V) Volts
W = IV	

work done (W) Joules	
power (work rate) watts	x time (t) seconds
W = Pt	

potential energy (E _p) Joules	
weight (mg) Newtons	x height (h) metres
E _p = mgh	

speed light in vacuum (c) metres / second	
refractive index n no units	x speed light in medium (v) metres / second
c = nv	

domestic energy supplied (E) kilowatt-hours	
power (P) kilowatts	x time supplied (t) hours
E = Pt	

total cost (c) pence	
number units (U) kilowatt-hours	x price per unit (P) pence
c = UP	

energy (E) Joules	
mass (m) kg	x specific latent heat (L) Joules / kilogram
E = mL	

image size metres	
magnification no units	x object size metres
no universal agreement on symbols to use	

Notes There are two "boxes" that aren't in the Revision Book but I've included them for completeness. Which ones?
I have missed out three compound measures from the Revision Book.- Specific Heat Capacity on Page 5 and two refractive index equations on page 72. Look them up for yourself!
I've used three symbols that are not in the Physics Revision Book -
Δ is the Mathematicians symbol for "change" so I included it for momentum change
I just couldn't bring myself to use the Physicist's KE for kinetic energy and PE for potential energy. What did I use instead?

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