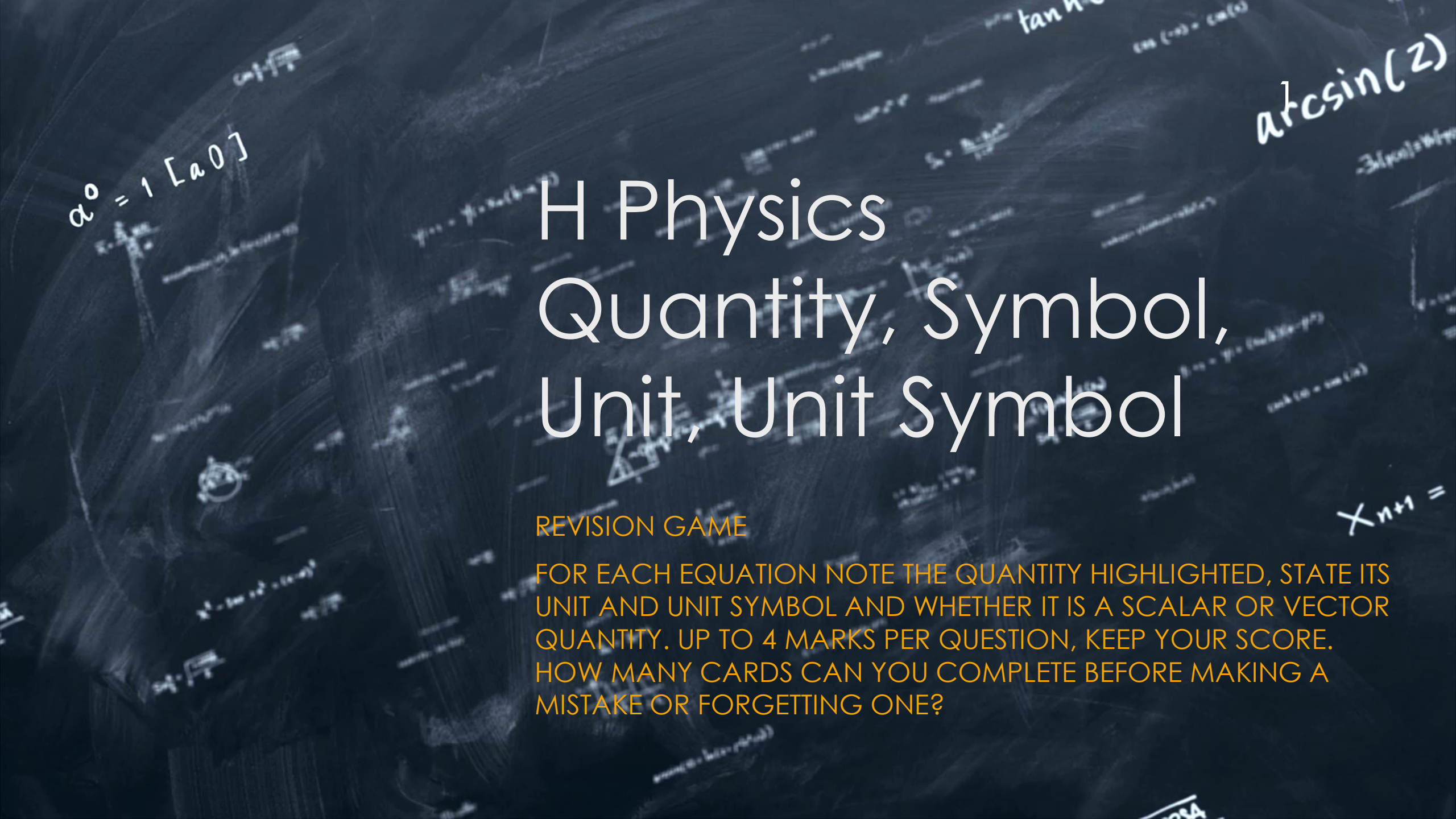




H Physics Quantity, Symbol, Unit, Unit Symbol

REVISION GAME

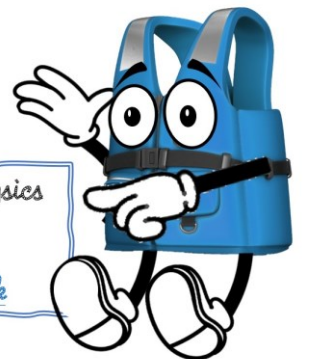
FOR EACH EQUATION NOTE THE QUANTITY HIGHLIGHTED, STATE ITS UNIT AND UNIT SYMBOL AND WHETHER IT IS A SCALAR OR VECTOR QUANTITY. UP TO 4 MARKS PER QUESTION, KEEP YOUR SCORE. HOW MANY CARDS CAN YOU COMPLETE BEFORE MAKING A MISTAKE OR FORGETTING ONE?

‘F’ as in $F = ma$

- ▶ force
- ▶ Newton
- ▶ N
- ▶ vector

/4

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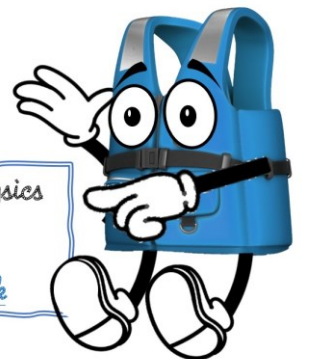


'd' as in $v = \frac{d}{t}$

- ▶ distance
- ▶ metre
- ▶ m
- ▶ scalar

/4

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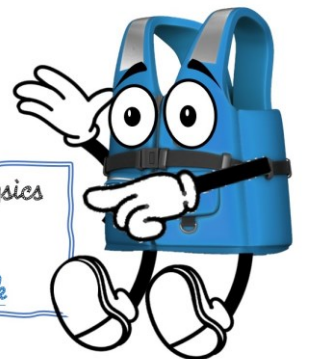


's' as in $v = \frac{s}{t}$

- ▶ displacement
- ▶ metre
- ▶ m
- ▶ vector

/4

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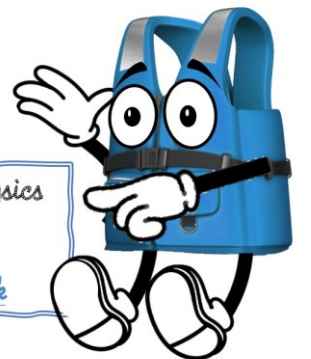


's' as in $s = ut + \frac{1}{2} at^2$

- ▶ displacement
- ▶ metre
- ▶ m
- ▶ vector

/4

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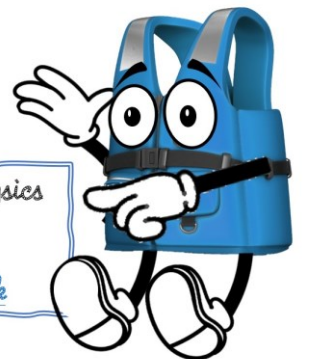


'u' as in $v = u + at$

- ▶ Initial velocity
- ▶ metres per second
- ▶ ms^{-1} or m/s
- ▶ vector

/4

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'a' as in $a = \frac{v-u}{t}$

- ▶ Acceleration
- ▶ metres per second squared
- ▶ ms^{-2} or m/s^2
- ▶ vector

/4

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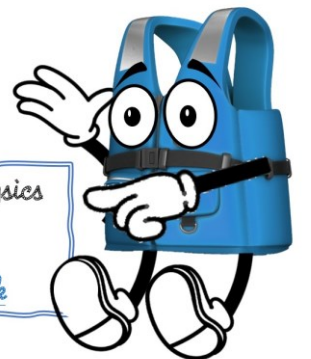


'g' as in $W = mg$

- ▶ Acceleration due to gravity/
gravitational field strength
- ▶ metres per second squared/ newtons
per kilogram
- ▶ ms^{-2} or m/s^2 or N kg^{-1}
- ▶ vector

/4

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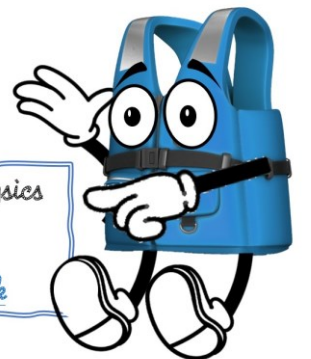


‘W’ as in $W = mg$

- ▶ Weight
- ▶ Newton
- ▶ N
- ▶ vector

/4

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‘ E_w ’ or W as in $E_w = Fd$

- ▶ Work done
- ▶ Joule
- ▶ J (must look like a capital)
- ▶ scalar

/4

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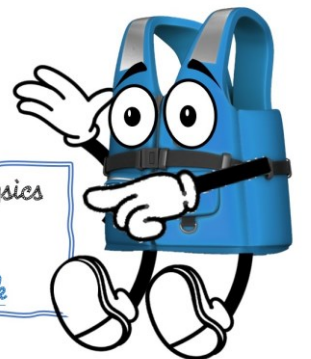


‘m’ as in $F = ma$

- ▶ mass
- ▶ kilogram
- ▶ kg
- ▶ scalar

/4

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‘h’ as in $E_p = mgh$

- ▶ height
- ▶ metre
- ▶ m
- ▶ scalar

/4

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‘ E_p ’ as in $E_p = mgh$

- ▶ (gravitational) potential Energy
- ▶ Joule
- ▶ J (must look like a capital)
- ▶ scalar

/4

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‘ E_k ’ as in $E_k = \frac{1}{2}mv^2$

- ▶ Kinetic Energy
- ▶ Joule
- ▶ J (must look like a capital)
- ▶ scalar

/4

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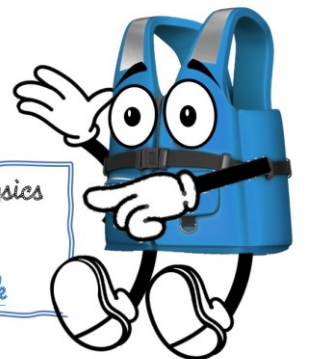


‘P’ as in $P = \frac{E}{t}$

- ▶ Power
- ▶ Watt (yes Watt is the unit of power)
- ▶ W
- ▶ scalar

/4

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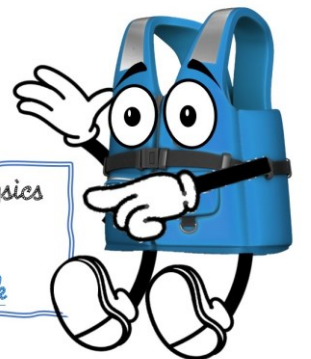


' F ' as in $F = G \frac{m_1 m_2}{r^2}$

- ▶ Gravitational force
- ▶ Newton
- ▶ N or kgms^{-2}
- ▶ vector

/4

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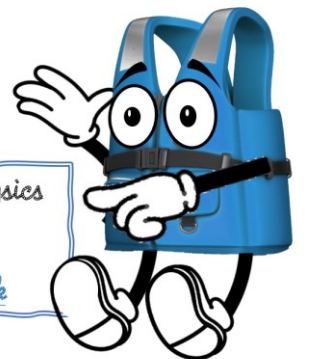


' G ' as in $F = G \frac{m_1 m_2}{r^2}$

- ▶ Universal constant of Gravitation
- ▶ cubic metres per kilogram per second squared!
- ▶ $\text{m}^3\text{kg}^{-1}\text{s}^{-2}$
- ▶ Scalar
- ▶ equal to
- ▶ $6.67 \times 10^{-11} \text{ m}^3\text{kg}^{-1}\text{s}^{-2}$

/5

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‘W’ as in $W = QV$

- ▶ Work done
- ▶ Joule
- ▶ J (must look like a capital)
- ▶ scalar

/4

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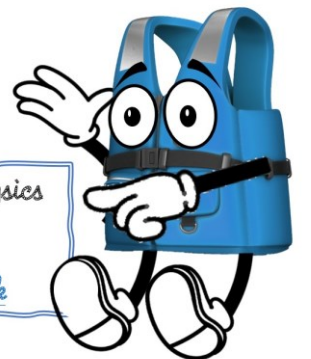


‘ Δp ’ as in $\Delta p = Ft$

- ▶ Change in momentum or impulse
- ▶ Kilogram metre per second or Newton second
- ▶ Kgms^{-1} or Ns
- ▶ vector

/4

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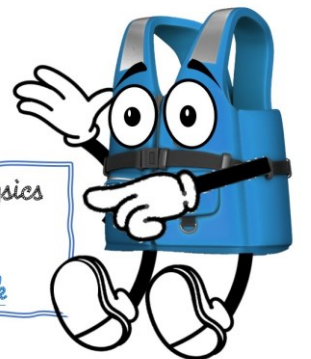


' p ' as in $p = mv$

- ▶ Momentum
- ▶ Kilogram metre per second or Newton second
- ▶ Kgms^{-1} or Ns
- ▶ vector

/4

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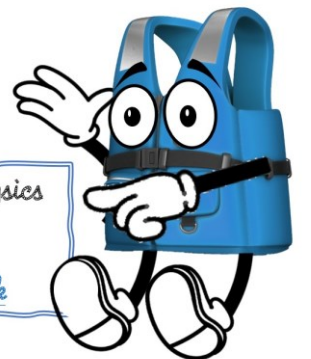


' m ' as in $p = mv$

- ▶ mass
- ▶ Kilogram
- ▶ Kg
- ▶ scalar

/4

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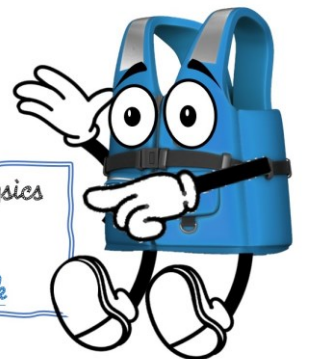


‘ Ft ’ as in $Ft = mv - mu$

- ▶ Impulse or change in momentum
- ▶ Newton second or kilogram metre per second
- ▶ Ns or kgms^{-1}
- ▶ vector

/4

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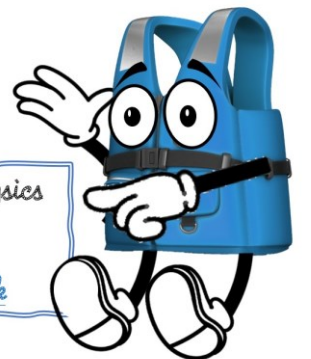
' t' ' as in $t' = \frac{t}{\sqrt{1 - \left(\frac{v}{c}\right)^2}}$

23

- ▶ Relativistic / Dilated time
- ▶ Units of time
- ▶ s, d, h, yr
- ▶ scalar

/4

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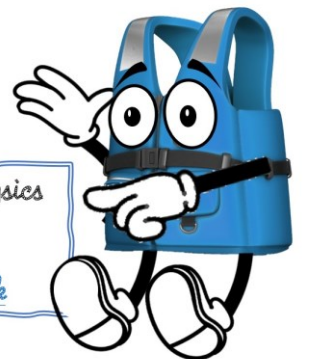


' t' ' as in $t' = \frac{t}{\sqrt{1 - \left(\frac{v}{c}\right)^2}}$

- ▶ dilated time
- ▶ second (or years/days etc)
- ▶ s (yr/d/h)
- ▶ scalar

/4

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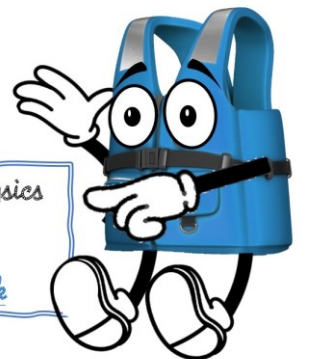
' t ' as in $t' = \frac{t}{\sqrt{1 - \left(\frac{v}{c}\right)^2}}$

25

- ▶ Time in the same reference frame as the clock???
- ▶ Units of time
- ▶ s, d, h, yr
- ▶ scalar

/4

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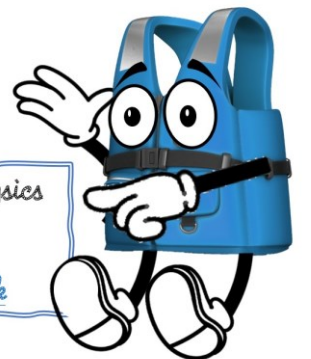


' l' ' as in $l' = l \sqrt{1 - \left(\frac{v}{c}\right)^2}$

- ▶ Relativistic /contracted length
- ▶ Units of length, metres
- ▶ m
- ▶ scalar

/4

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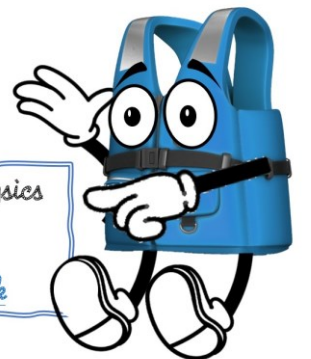


' l ' as in $l' = l \sqrt{1 - \left(\frac{v}{c}\right)^2}$

- ▶ original length
- ▶ Units of length, metres
- ▶ m
- ▶ scalar

/4

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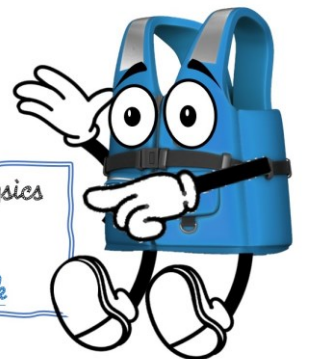


' f_s ' as in $f_o = f_s \left(\frac{v}{v \pm v_s} \right)$

- ▶ Frequency of the source
- ▶ Hertz
- ▶ Hz
- ▶ scalar

/4

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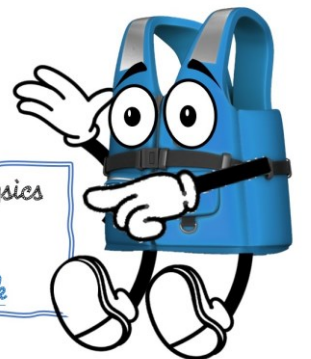


' v_s ' as in $f_o = f_s \left(\frac{v}{v \pm v_s} \right)$

- ▶ velocity of the source
- ▶ Metres per second
- ▶ ms^{-1} or m/s
- ▶ vector

/4

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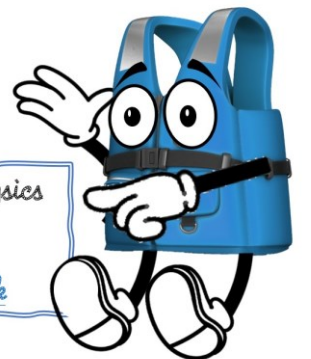


' f_o ' as in $f_o = f_s \left(\frac{v}{v \pm v_s} \right)$

- ▶ Observed frequency
- ▶ Hertz
- ▶ Hz
- ▶ scalar

/4

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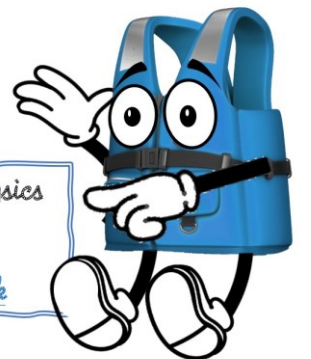


' c ' as in $E = mc^2$

- ▶ Speed of light
- ▶ metres per second
- ▶ ms^{-1} or m/s
- ▶ This is equal to
- ▶ $3.00 \times 10^8 \text{ ms}^{-1}$

/4

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' l' ' as in $l' = l \sqrt{1 - \left(\frac{v}{c}\right)^2}$

- ▶ contracted length
- ▶ metre
- ▶ m
- ▶ scalar

/4

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' $\lambda_{observed}$ ' as in $z = \frac{\lambda_{observed} - \lambda_{rest}}{\lambda_{rest}}$

► **Observed wavelength** (the wavelength arriving at us after passing through space)

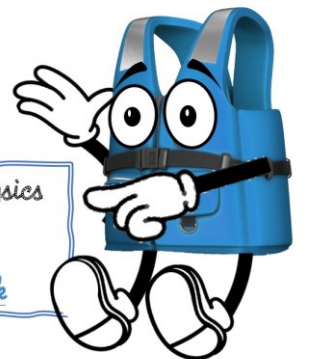
► **metre**

► **m**

► **scalar**

/4

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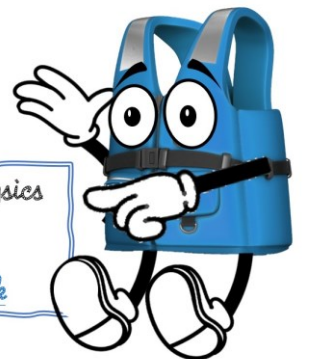


34
' $\lambda_{observed}$ ' as in $z = \frac{\lambda_{observed} - \lambda_{rest}}{\lambda_{rest}}$

- ▶ Observed wavelength
- ▶ metre
- ▶ m
- ▶ scalar

/4

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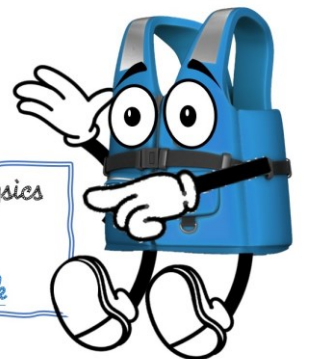
'v' as in $z = \frac{v}{c}$

35

- ▶ Recessional velocity
- ▶ metres per second
- ▶ ms^{-1} or m/s
- ▶ vector

/4

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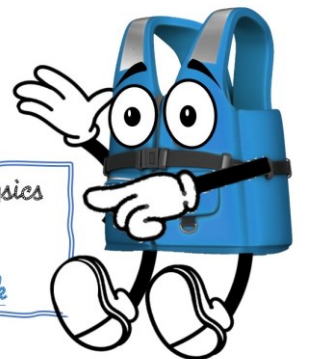
36

'z' as in $z = \frac{v}{c}$ or $z = \frac{\lambda_{\text{observed}} - \lambda_{\text{rest}}}{\lambda_{\text{rest}}}$

- ▶ redshift
- ▶ No unit
- ▶ scalar

/3

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' λ_{rest} ' as in $z = \frac{\lambda_{observed} - \lambda_{rest}}{\lambda_{rest}}$

- ▶ rest wavelength
- ▶ metre
- ▶ m
- ▶ scalar

/4

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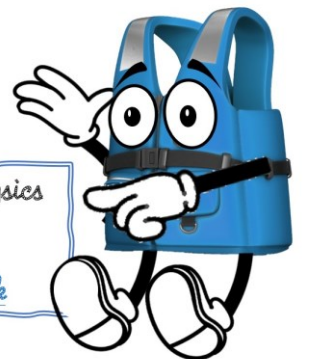


' H_o ' as in $v = H_o d$

- ▶ Hubble's constant
- ▶ Per Second or seconds to the minus 1
- ▶ s^{-1}
- ▶ Scalar. The value is equal to
- ▶ $2.3 \times 10^{-18} s^{-1}$

/5

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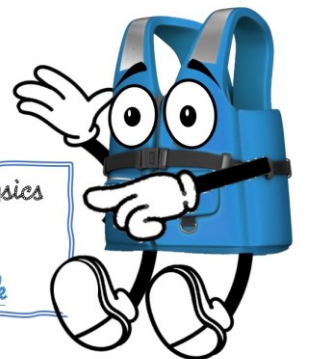


'd' as in $v = H_0 d$

- ▶ Distance from galaxy to the observer
- ▶ metre
- ▶ m
- ▶ Scalar.

/4

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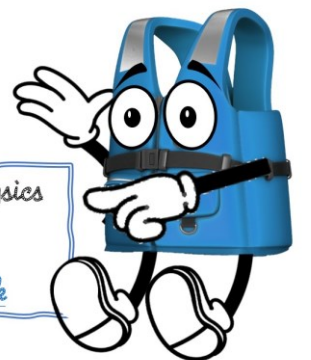


'f_o' as in $f_o = f_s \left(\frac{v}{v \pm v_s} \right)$

- ▶ Observed frequency
- ▶ Hertz
- ▶ Hz
- ▶ scalar

/4

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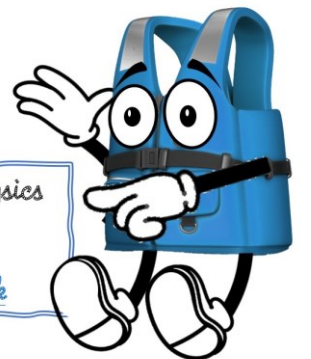


' Δv ' as in $a = \frac{\Delta v}{t}$

- ▶ Change in velocity
- ▶ Metres per second
- ▶ ms^{-1} or m/s
- ▶ vector

/4

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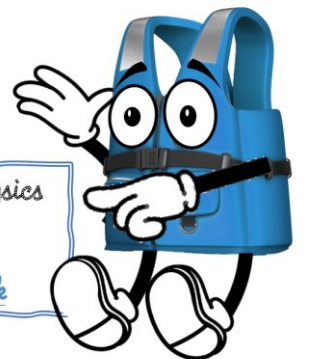


'A' as in $I = \frac{P}{A}$

- ▶ Area
- ▶ Square metres
- ▶ m^2 or m^2
- ▶ scalar

/4

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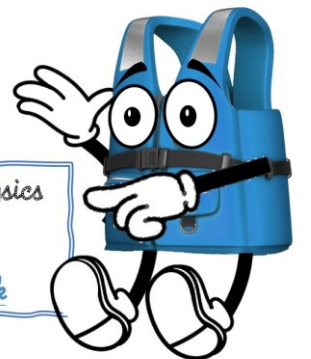


'I' as in $I = \frac{P}{A}$

- ▶ irradiance
- ▶ Watts per square metre
- ▶ Wm^{-2} or W/m^2
- ▶ scalar

/4

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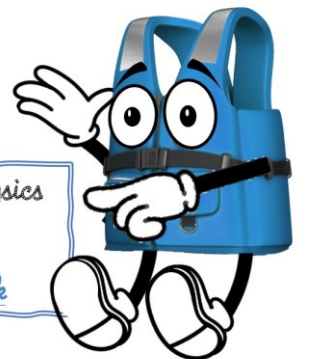


‘ ΔR ’ as in $\Delta R = \frac{R_{max} - R_{min}}{n}$

- ▶ Approximate random uncertainty
- ▶ The units of the quantity measured
- ▶ Scalar or vector

/3

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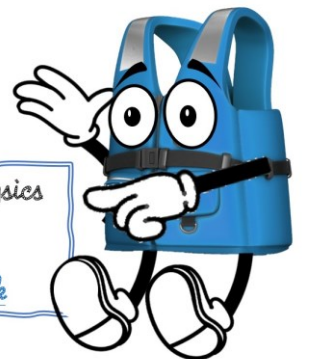


'f' as in $T = \frac{1}{f}$

- ▶ frequency
- ▶ Hertz
- ▶ Hz
- ▶ scalar

/4

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'T' as in $T = \frac{1}{f}$

- ▶ period
- ▶ second
- ▶ s
- ▶ scalar

/4

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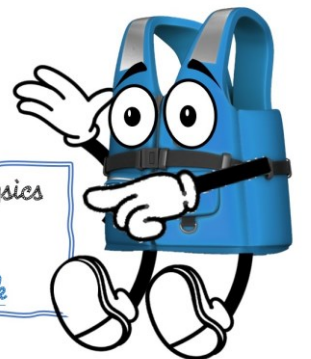


' f_s ' as in $f_o = f_s \left(\frac{v}{v \pm v_s} \right)$

- ▶ Frequency of source
- ▶ Hertz
- ▶ Hz
- ▶ scalar

/4

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‘ E_2 ’ as in $E_2 - E_1 = hf$

- ▶ Energy level
- ▶ Joule
- ▶ J (must look like a capital)
- ▶ scalar

/4

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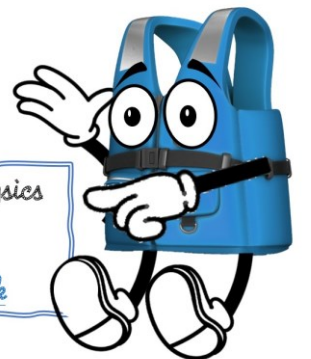


‘E’ as in $E = hf$

- ▶ Energy of the photon
- ▶ Joule
- ▶ J (must look like a capital)
- ▶ scalar

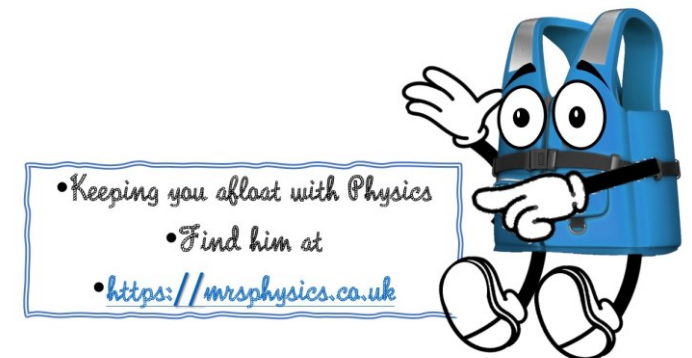
/4

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‘ hf_o ’ as in $E_k = hf - hf_o$

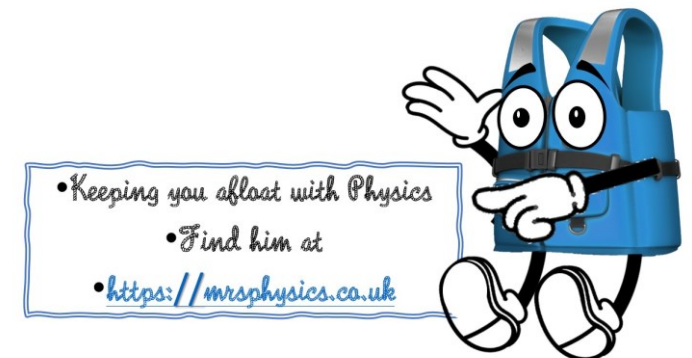
- ▶ Work function
- ▶ Joule
- ▶ J
- ▶ scalar



‘ f_o ’ as in $E_k = hf - hf_o$

51

- ▶ Threshold frequency
- ▶ Hertz
- ▶ Hz
- ▶ scalar



‘h’ as in $E = hf$

- ▶ Planck’s constant
- ▶ Joule second
- ▶ Js
- ▶ Scalar
- ▶ Equal to
- ▶ 6.63×10^{-34} Js

/5

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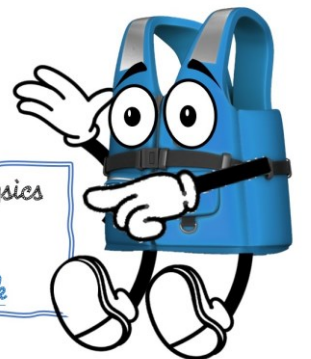


' θ ' as in $d \sin \theta = m \lambda$

- ▶ Angle
- ▶ degrees
- ▶ °
- ▶ scalar

/4

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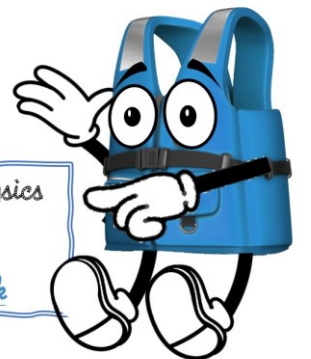


'd' as in $d \sin \theta = m \lambda$

- ▶ Slit separation
- ▶ metre
- ▶ m
- ▶ scalar

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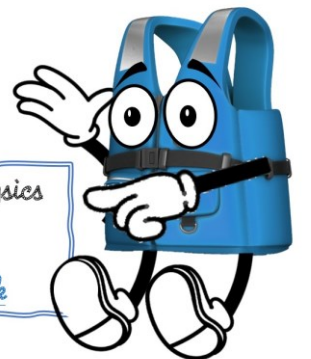


' d_1 ' as in $I_1 d_1^2 = I_2 d_2^2$

- ▶ Initial distance from the source
- ▶ metre
- ▶ m
- ▶ scalar

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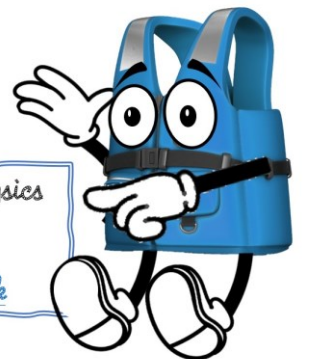


'k' as in $I = \frac{k}{d^2}$

- ▶ Constant of proportionality
- ▶ Watt
- ▶ W
- ▶ scalar

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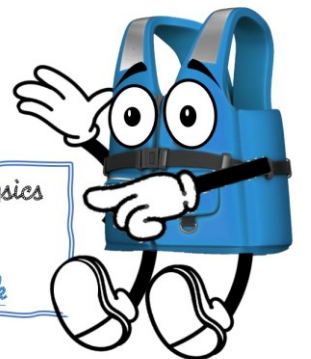


' I_1 ' as in $I_1 d_1^2 = I_2 d_2^2$

- ▶ Initial irradiance
- ▶ Watts per square metre
- ▶ Wm^{-2} or W/m^2
- ▶ scalar

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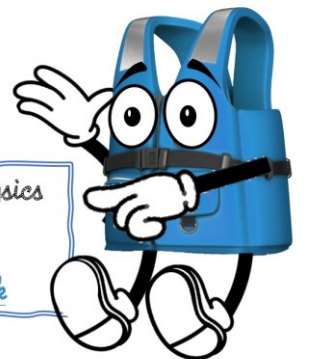


' θ_c ' as in $n = \frac{1}{\sin \theta_c}$

- ▶ Critical angle
- ▶ degrees
- ▶ °
- ▶ scalar

/4

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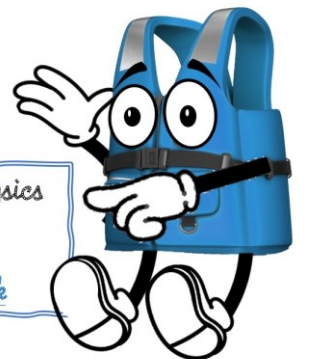


'n' as in $n = \frac{\sin \theta_1}{\sin \theta_2}$

- ▶ Refractive index
- ▶ No units
- ▶ scalar

/3

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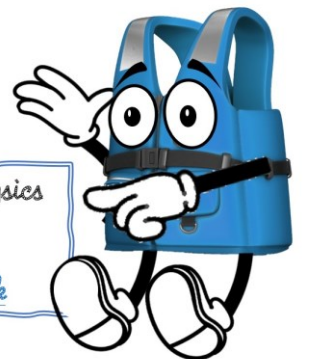


' v_1 ' as in $\frac{\sin \theta_1}{\sin \theta_2} = \frac{\lambda_1}{\lambda_2} = \frac{v_1}{v_2}$

- ▶ Speed of wave in vacuum / equates to air
- ▶ metres per second
- ▶ ms^{-1} or m/s
- ▶ scalar
- ▶ This is likely to be equal to
- ▶ $3.00 \times 10^8 \text{ ms}^{-1}$

/5

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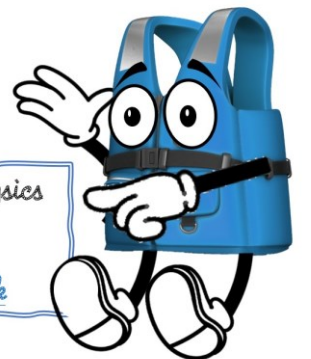


' I_{peak} ' as in $I_{rms} = \frac{I_{peak}}{\sqrt{2}}$

- ▶ Peak current
- ▶ Ampere
- ▶ A
- ▶ scalar

/4

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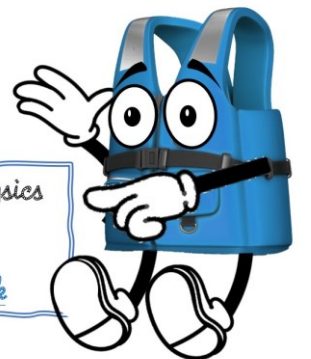


' I_{rms} ' as in $I_{rms} = \frac{I_{peak}}{\sqrt{2}}$

- ▶ Root mean squared current
- ▶ Ampere
- ▶ A
- ▶ scalar

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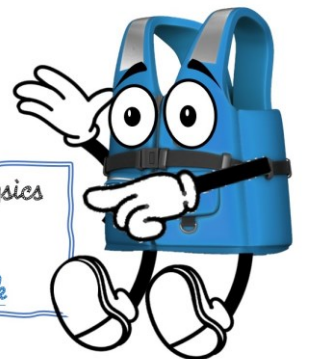


‘ V_{peak} ’ as in $V_{\text{rms}} = \frac{V_{\text{peak}}}{\sqrt{2}}$

- ▶ Peak voltage
- ▶ volt
- ▶ V
- ▶ scalar

/4

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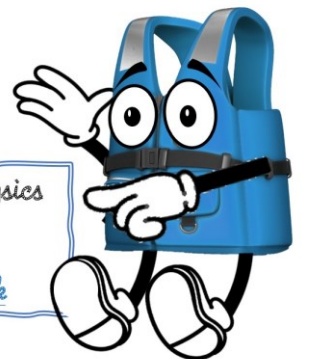


‘ V_{rms} ’ as in $V_{rms} = \frac{V_{peak}}{\sqrt{2}}$

- ▶ Root mean squared voltage
- ▶ volt
- ▶ V
- ▶ scalar

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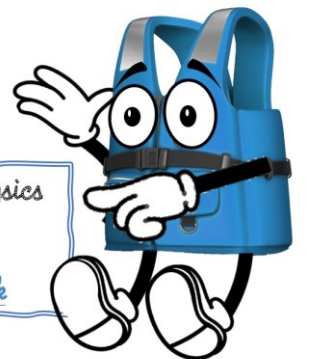


'T' as in $T = \frac{1}{f}$

- ▶ period
- ▶ second
- ▶ s
- ▶ scalar

/4

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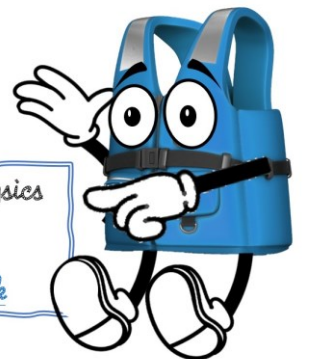


‘A’ as in *height of a wave*

- ▶ amplitude
- ▶ metre
- ▶ m
- ▶ scalar

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'C' as in $E = \frac{1}{2} CV^2$

- ▶ capacitance
- ▶ Farad
- ▶ F (equal to CV^{-1})
- ▶ scalar

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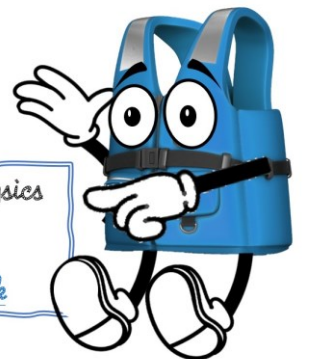


'p' as in $p = \frac{F}{A}$

- ▶ pressure
- ▶ Newton per square metre or Pascal
- ▶ Pa
- ▶ scalar

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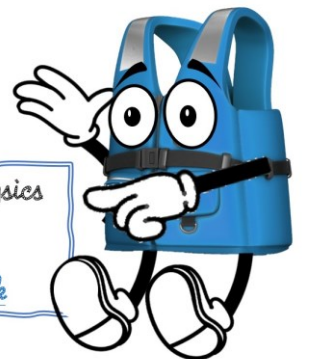


‘Q’ as in $Q = It$

- ▶ charge
- ▶ coulomb
- ▶ C
- ▶ scalar

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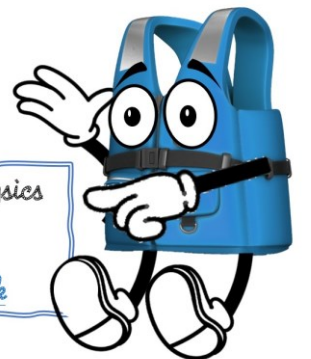


‘V’ as in $V = IR$

- ▶ voltage
- ▶ volt
- ▶ V
- ▶ scalar

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‘I’ as in $V = IR$

- ▶ current
- ▶ ampere
- ▶ A
- ▶ scalar

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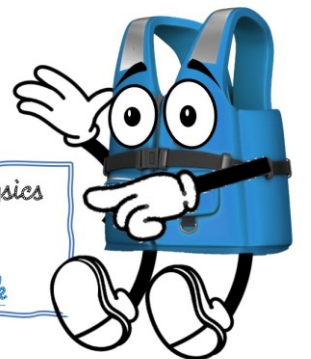


' R_T ' as in $\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$

- ▶ Total resistance of resistors in parallel
- ▶ ohm
- ▶ Ω
- ▶ scalar

/4

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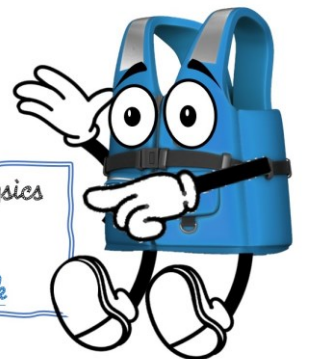


‘R’ as in $V = IR$

- ▶ resistance
- ▶ ohm
- ▶ Ω
- ▶ scalar

/4

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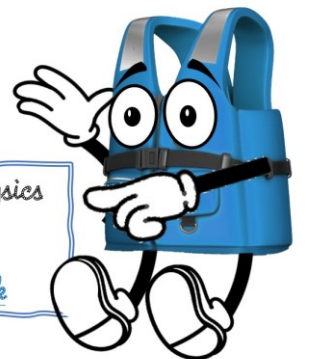


‘R’ as in $E = I(R + r)$

- ▶ Total load resistance (total resistance in the external circuit)
- ▶ ohm
- ▶ Ω
- ▶ scalar

/4

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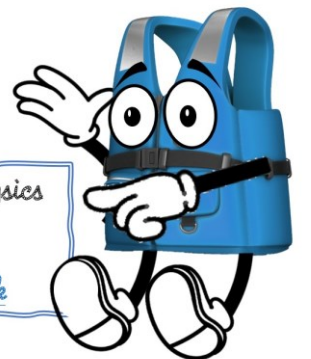


' λ ' as in $v=f\lambda$

- ▶ wavelength
- ▶ metre
- ▶ m
- ▶ scalar

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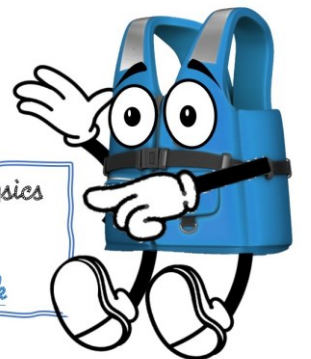


'A' as in $p = \frac{F}{A}$

- ▶ area
- ▶ Square metre
- ▶ m^2
- ▶ scalar

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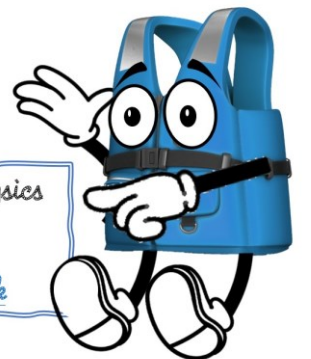


'r' as in $\varepsilon = V + Ir$

- ▶ Internal resistance
- ▶ ohm
- ▶ Ω
- ▶ scalar

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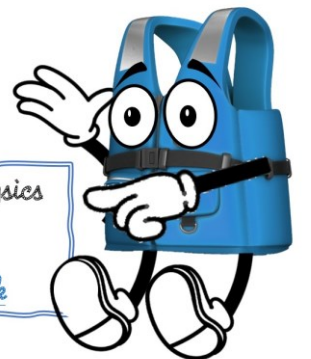


' ε or E ' as in $\varepsilon = V + Ir$

- ▶ Electromotive force (e.m.f)
- ▶ Voltage
- ▶ V
- ▶ scalar

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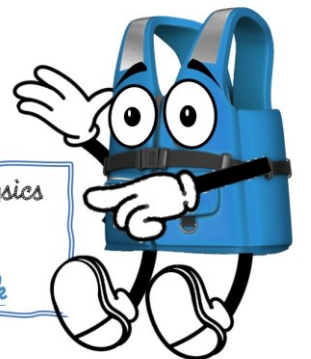


'Q' as in $C = \frac{Q}{V}$

- ▶ charge
- ▶ coulomb
- ▶ C
- ▶ scalar

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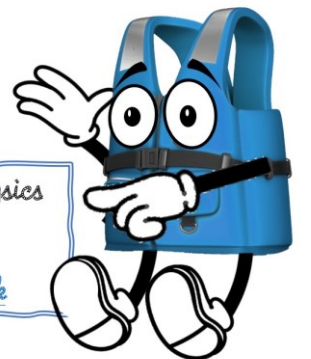


Q' as in $E = \frac{1}{2} QV = \frac{1}{2} CV^2 = \frac{1}{2} \frac{Q^2}{C}$

- ▶ Charge stored on the capacitor
- ▶ coulomb
- ▶ C
- ▶ scalar

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't' as in $a = \frac{v-u}{t}$

- ▶ Time for the change
- ▶ second
- ▶ s
- ▶ scalar

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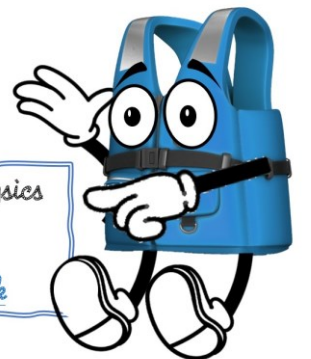


$$R_2 \text{ as in } V_2 = \left(\frac{R_2}{R_1 + R_2} \right) V_s$$

- ▶ Resistance of resistor 2
- ▶ ohm
- ▶ Ω
- ▶ scalar

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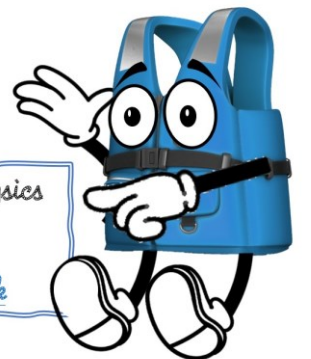


$$V_s \text{ as in } V_2 = \left(\frac{R_2}{R_1 + R_2} \right) V_s$$

- ▶ Supply Voltage
- ▶ Volt
- ▶ V
- ▶ scalar

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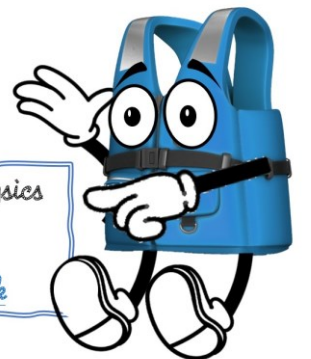


' λ ' as in $v=f\lambda$

- ▶ wavelength
- ▶ metre
- ▶ m
- ▶ scalar

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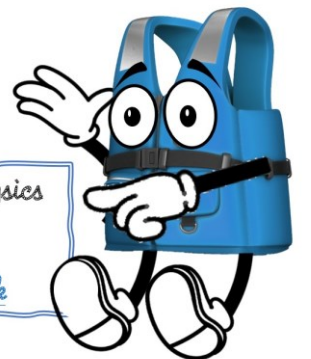
85
1
2

'm' as in *Path difference* = $m\lambda$ or $\left(m + \frac{1}{2}\right)\lambda$

- ▶ Integer (a whole number!)
- ▶ No units

/2

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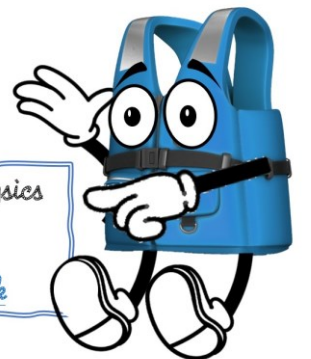


'I' as in $V = IR$

- ▶ current
- ▶ ampere
- ▶ A
- ▶ scalar

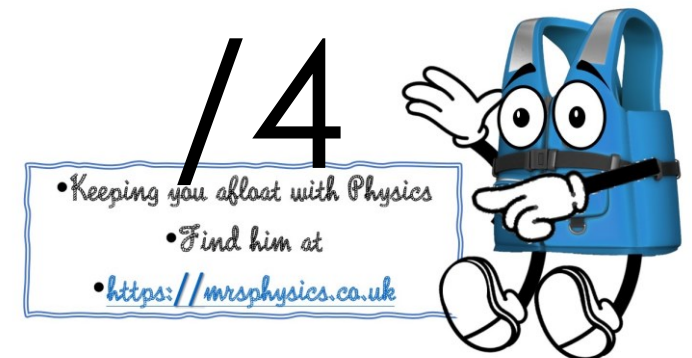
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$$V_2 \text{ as in } V_2 = \left(\frac{R_2}{R_1 + R_2} \right) V_s$$

- ▶ Voltage across resistor 2
- ▶ Volt
- ▶ V
- ▶ scalar

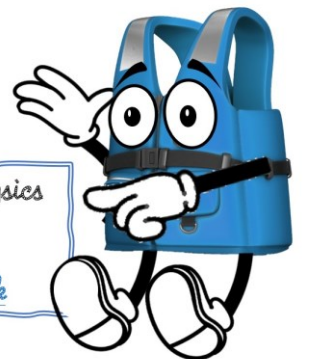


' R_T ' as in $R_T = R_1 + R_2 + \dots$

- ▶ Total resistance of resistors in series
- ▶ ohm
- ▶ Ω
- ▶ scalar

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'Q' as in $W = QV$

- ▶ charge
- ▶ coulomb
- ▶ C
- ▶ scalar

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