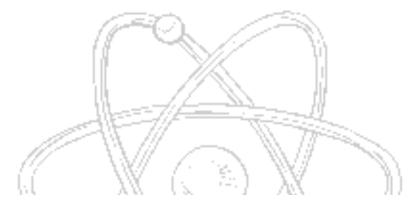


SI Unit of Mass

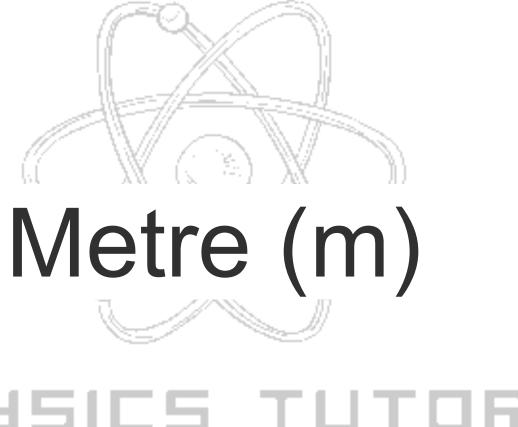


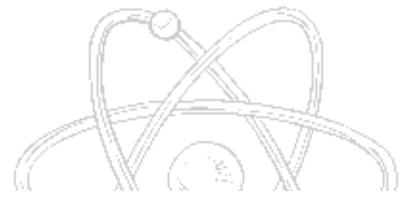


Kilogram (kg). It is the only SI unit with a prefix!



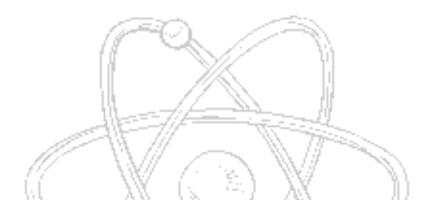
SI Unit of Length





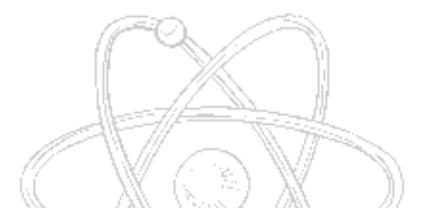
SI Unit of Time



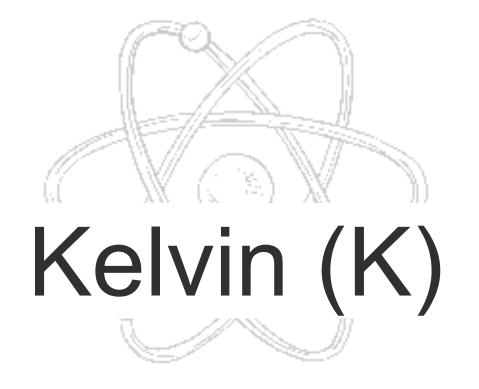


SI Unit of Current



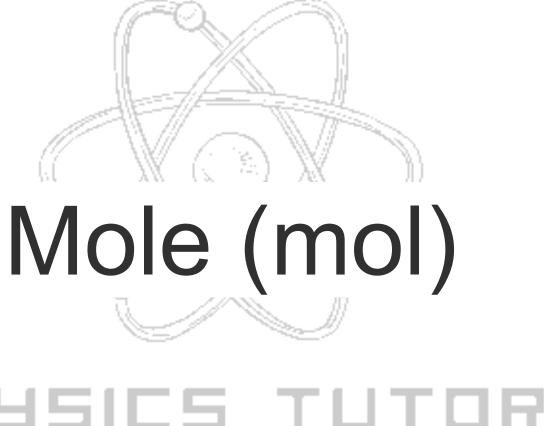


SI Unit of Temperature



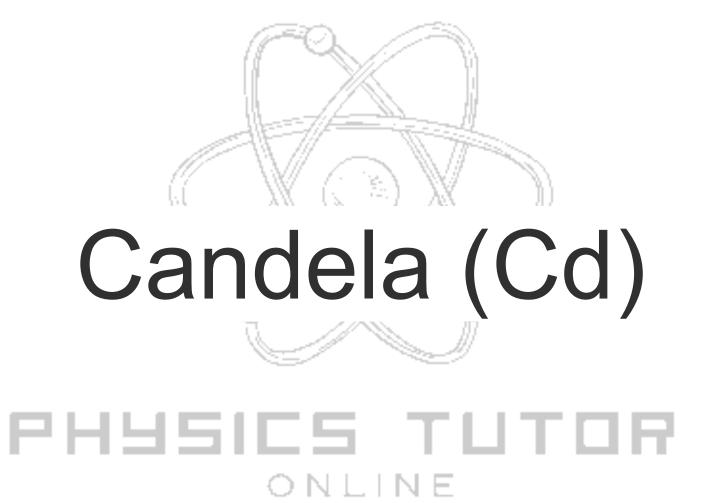


SI Unit of Amount of Substance



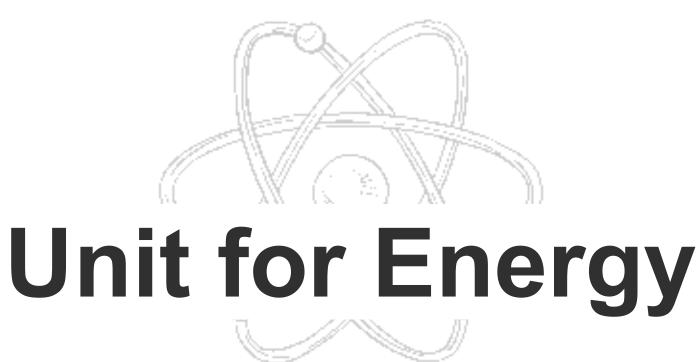


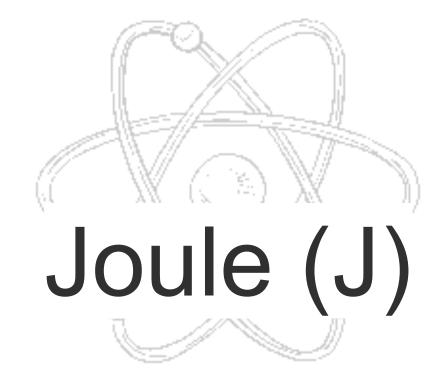
SI Unit of Luminous Flux

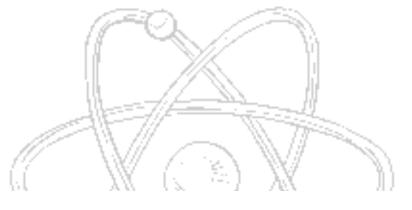




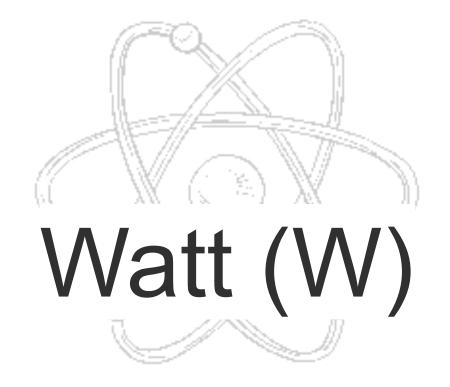


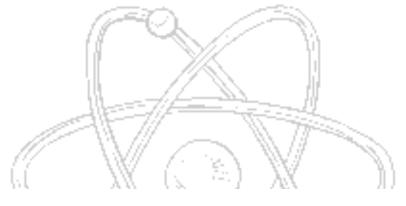




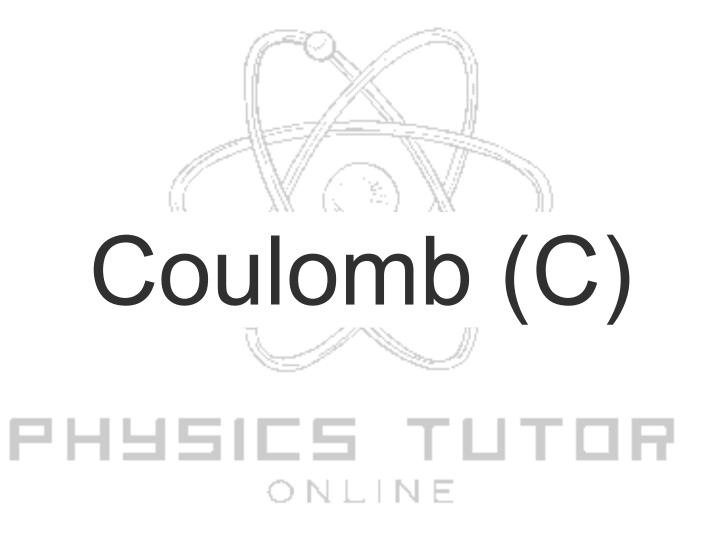


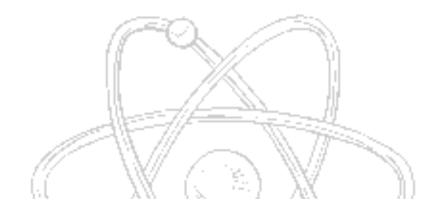
Unit for Power





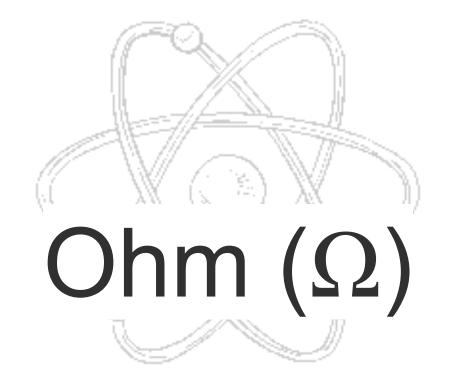
Unit for Charge

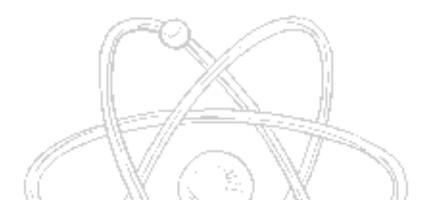




Unit for Resistance







Unit for Pressure

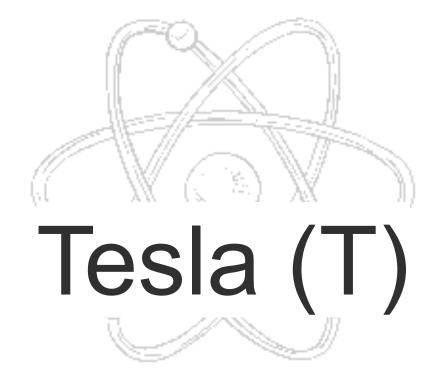


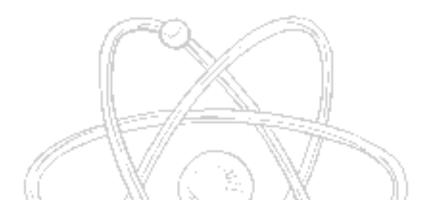
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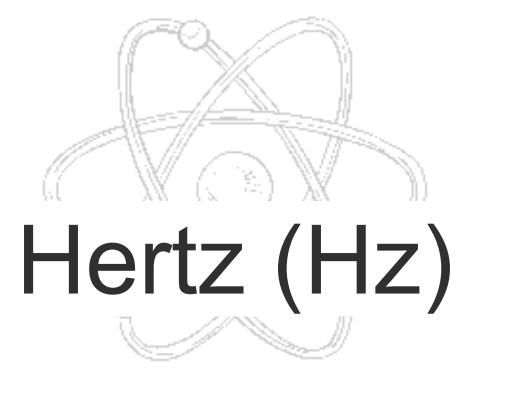


Unit for Magnetic Flux Density



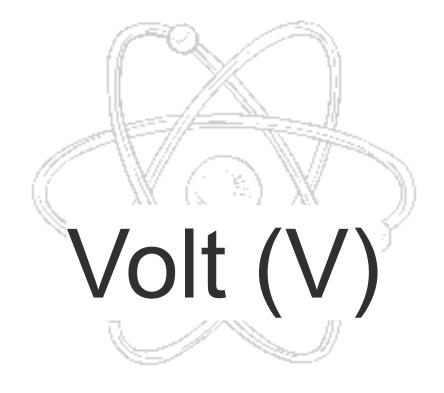


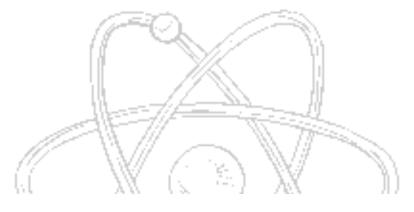
Unit for Frequency





Unit for Potential Difference

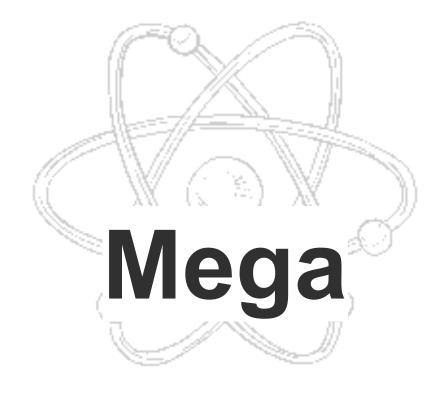




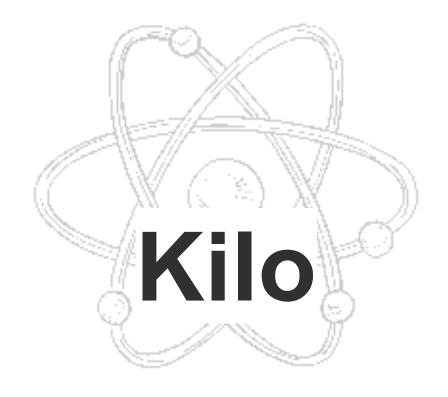
Prefix: Giga

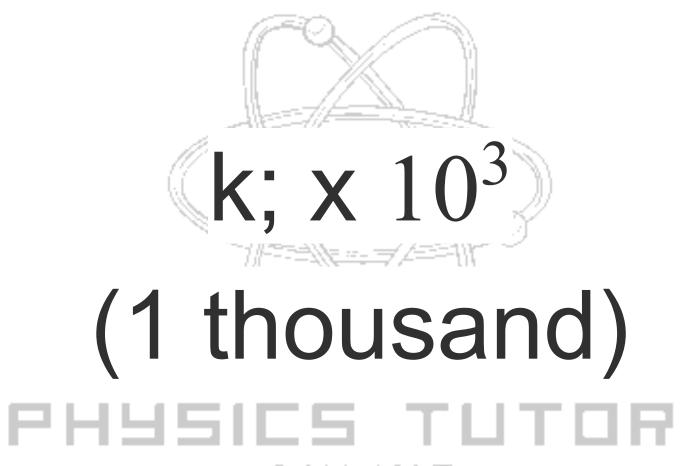


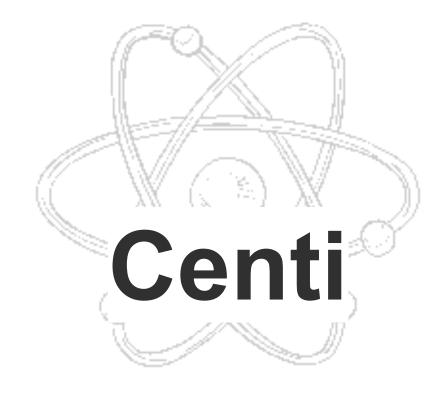


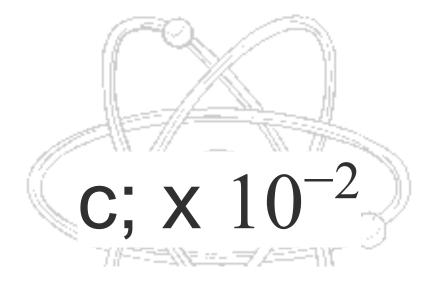






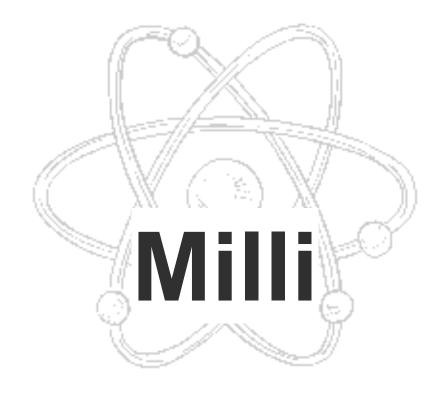


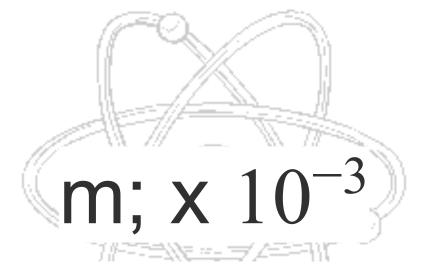




or ÷100 (1 hundredth)

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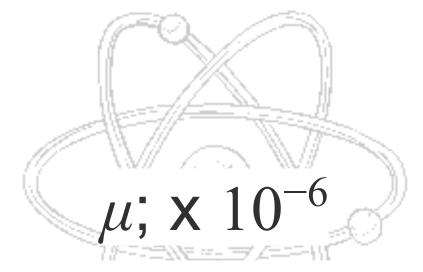




or ÷1,000 (1 thousandth)

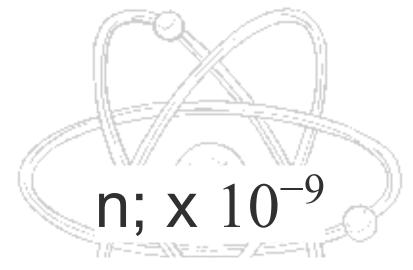
PHYSICS TUTOR



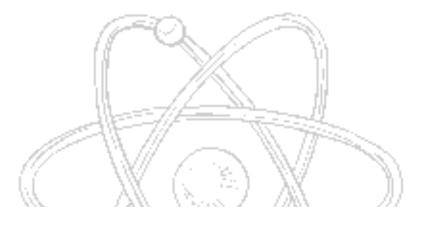


or ÷1,000,000 (1 millionth)





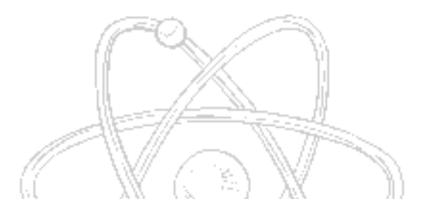
or ÷1,000,000,000 (1 billionth)



Purpose of SI Units



Used by all scientists to express quantities from measurements



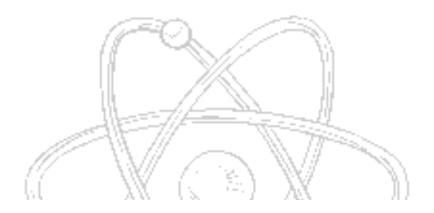
Standard Form



Large values may be written as x10 to a power (E.g.,

 $X1000=x10^3$)

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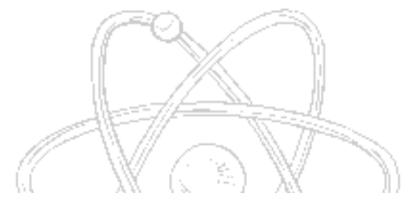


Significant Figures

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The number of non-zero figures after a decimal point or previous number (E.g.,

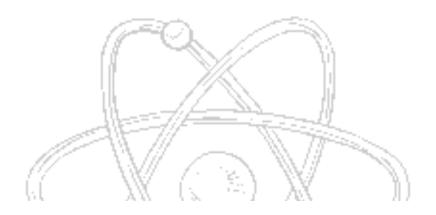
0.020=2SF or 12,000=2SF)



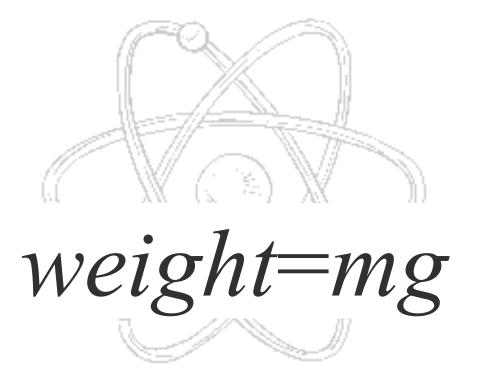
Unit Prefixes



Used to indicate a multiplication factor (Unit Multiples and Submultiples) PHUSICS TUTOR



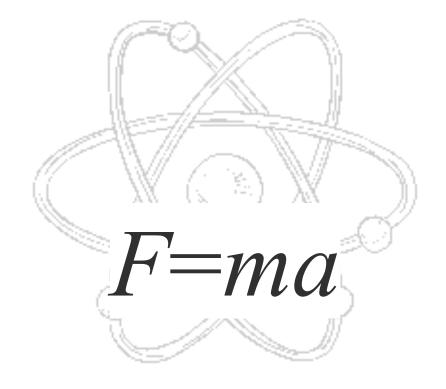
Equation: Weight

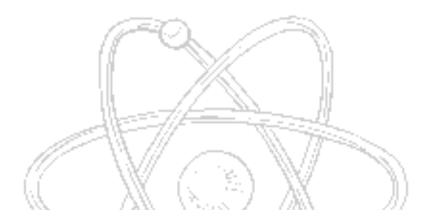




Equation: Force (Newton's Second Law)

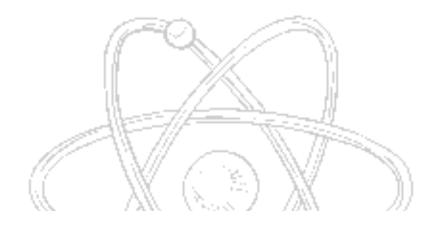




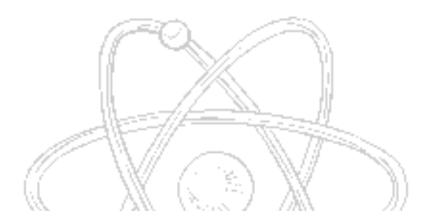


Equation: Density (ρ)





$$density = rac{mass}{volume}$$
 or $ho = rac{m}{V}$



Equation: Work Done





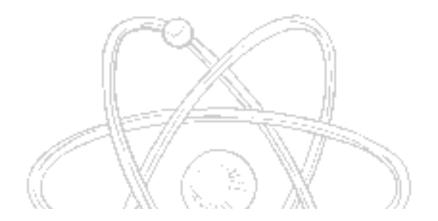
E=Fd (Force × distance moved in the direction of the force)



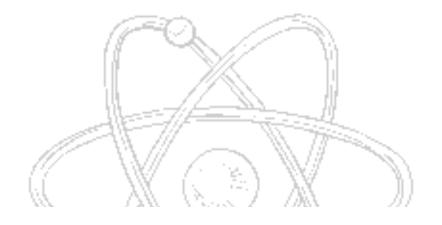
(Energy/Time)



$$Power = rac{workdone}{time}$$



Equation: Efficiency

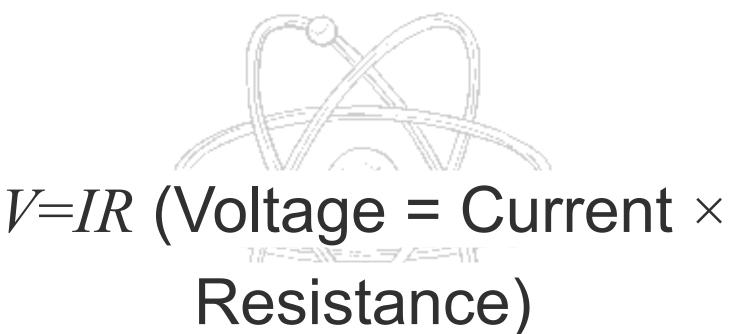


$$:efficiency = rac{usefully energy output}{total energy input}$$



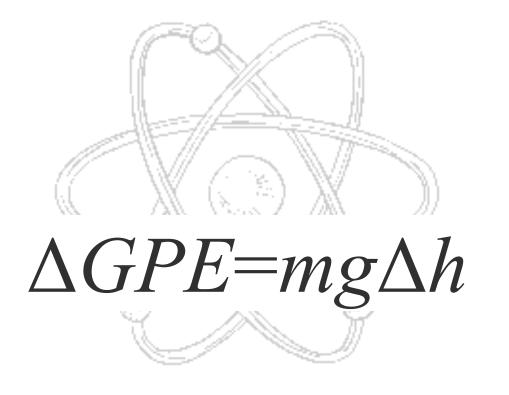
Equation: Voltage (Ohm's

Law)





Equation: Change in Gravitational Potential Energy PHUSICS TUTOR





Equation: Kinetic Energy (*KE***)**

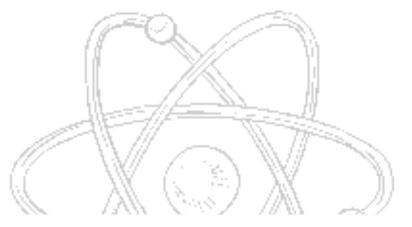




$KE = \frac{1}{2}mv^2$



Equation: Charge



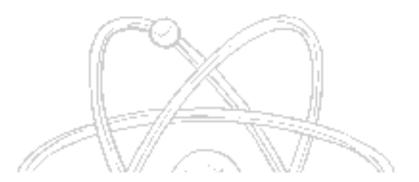
Q=It (charge = current × time)

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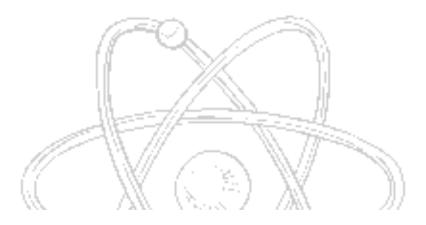
Equation: Moment of





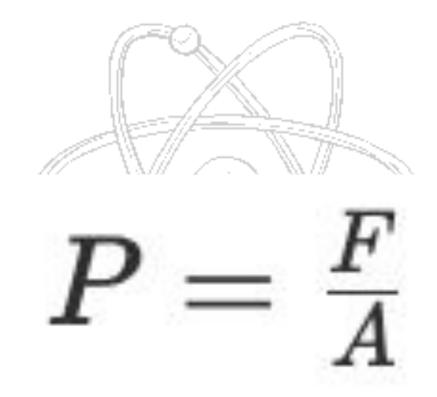
Moment of force = force × perpendicular distance





Equation: Pressure



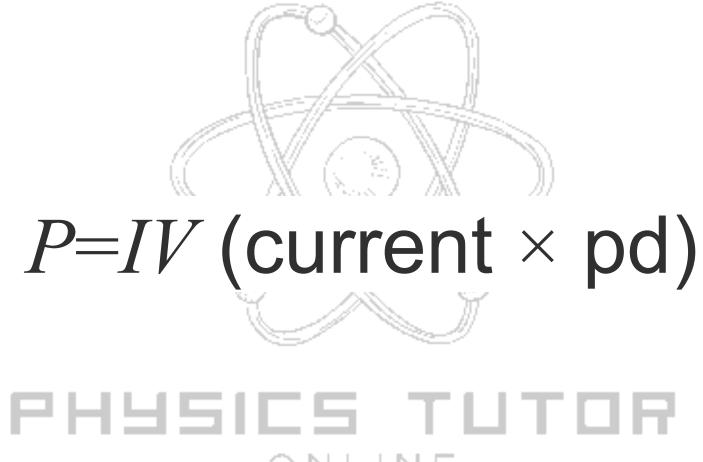




Equation: Electrical

Power

7//-75=3//2 --- = /----7//



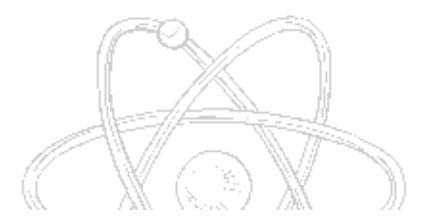


Equation: Acceleration





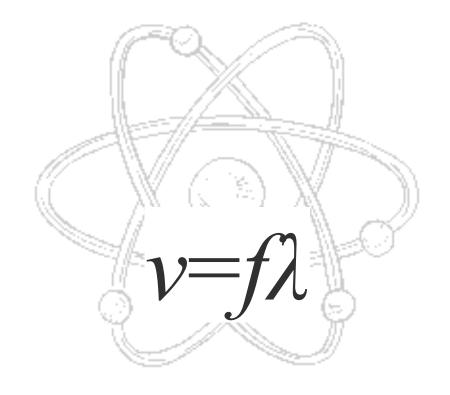
 $a = \frac{v-u}{t}$



Equation: Wave Speed

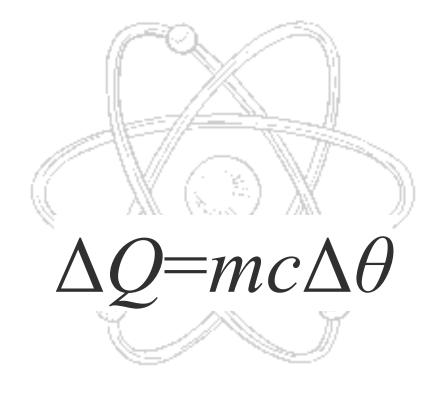


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Change in Energy (Specific Heat Capacity)





Higher Tier Equation:

Momentum

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