All physical quantities, with their units and symbols.

Force, F, Newton, N

Mass, M, Kilograms, kg

Acceleration, a, Meters per second Squared, M/s^2

Displacement, S, Meters, m

Initial Velocity, U, meters per second, m/s

Final Velocity, V, meters per second, m/s

Time, t, Seconds, s

Heat, Q, Joules, J

Specific Heat Capacity, C, Joules per kg centrigate, J/Kg Cº

Temperature, T, Centigrade, Cº

Potential Energy, PE/U, Joules, J

Kinetic Energy, KE, Joules, J

Energy, E, Joules, J

Work Done, W, Joules, J

Momentum, p, Kilogram meter per second, Kg/ m/s

Moment, M, Newton Seconds, Ns

Power, P, Watts, W

Efficiency, n, Ratio (no unit)

Weight, w, Newton, N

Latent Heat, L, Joules per kg, J/kg

Speed, S, Kilometers per hour, km/h

Distance, d, kilometres, km

Density, D, Kilograms per meter cubed, kg/m^3

All formulas

Force = Acceleration • Mass (kg)

Weight = Mass • gravitational acceleration (Newtons)

Moment = force • perpendicular distance from the pivot

Newtons second law = F=ma

Kinetic energy: 1/2 x mv^2 (Joules)

Work done = energy transferred

Work Done= Force x Distance (Joules)

Power = energy transferred/time (Watts)

Efficiency = useful energy output/total energy input

Gravitational potential energy = mgh (mass•gravitational acceleration • height)

Heat=Mass• Specific Heat Capacity• ΔTemperature

Momentum= Mass • Velocity

Energy Transferred =Power • Time

Spring Force= -spring constant • spring stretch

All the suvat equations.

$$2$$

Density= Mass÷Volume

Efficiency=Useful Energy Output ÷Total Energy Input•100

Acceleration= Final Velocity- Initial Velocity÷Time

Total Internal energy of a System= Kinetic Energy+Potential Energy

Latent Heat=Heat absorbed or released/Mass

Distance=Velocity^2/Constant

Force=Change in momentum/Time

Centripetal Force=Mass•Velocity^2/radius

Year 11

All Physical Quantities with units, symbols.

Frequency, F, Hertz, Hz

Wavelength, Lambda, Meters, m

Speed, v, Meters per second, m/s

Time period, T, Seconds, s

Formulas

Frequency=Speed/Wavelength