

Physics

Define 1 unit of quantities

IXTh

1 m/s of speed

It is speed equal to the speed of a body covering a distance of one metre in a time of one second.

1 m/s² of acceleration

If an object accelerates at 1 m/s², it means that its speed is increasing by 1 m/s every second.

1 Newton (N) of force

Force necessary to provide a mass of one kilogram with an acceleration of one metre per second per second.

1 kgm/s of momentum

Momentum which is equal to the momentum of an object of mass 1kg moving with a speed of 1m/s.

1 j (joule) of work

1 J is the amount of work done by a force of 1 N on an object that displaces it through a distance of 1 m in the direction of the applied force.

1 j (joule) of energy

The amount of energy delivered by a one watt source of power in one second is one Joule.

1 watt (W) of power

A body is said to have power of 1 watt if it does work at the rate of 1 joule in 1 s.

1 kWh (kilo watt hour)

a unit of measurement that equals the amount of energy you would use if you kept a 1,000 watt appliance running for an hour.