

WORK, POWER AND SIMPLE MACHINES

$$\text{Work} = \text{Force} \times \text{Distance}$$

Definition:

A _____ that makes something _____

Units: J N m

Definition:

Is a _____ or a _____

Units: J N m

Definition:

How _____ something moves.

Units: J N m

$$\text{Power} = \text{Work} \div \text{Time}$$

Definition:

The amount of _____ per unit of _____

Units: W J N m

Definition:

A _____ that makes something _____

Units: J N m

Definition:

How _____ it takes to do something.

Units: J N m sec

$$\text{Mechanical Advantage} = \text{Force of the resistance} \div \text{Force of the effort}$$

Definition:

The _____ of times a machine _____ force.

Units: J N M none

Definition:

The force that the comes _____ of the machine.

Units: J N m

Definition:

The force that goes _____ the machine.

Units: J N m

$$\text{Efficiency} = \text{Work Output} \div \text{Work input} \times 100$$

Definition: Compares useful _____ to _____ work.

Units: J N m %

Definition:

The amount of work that the machine _____

Units: J N m

Definition: The amount of work that went _____ the machine.

Units: J N m