

# 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

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

**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

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

**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