

Question: If energy is the ability to do work, what is WORK?

WORK

Work is when a force is applied to an object and the object moves in the same direction as the force.

WORK = Force x Distance

Work done on an object changes the energy

WORK = ▲ Energy

$$\mathbf{W = f \times d}$$

The units of work are
JOULES.

1 Joule equals the amount of force (Newtons) it takes to move an object 1 metre

$$\mathbf{1J = 1N \times 1m}$$

Example: (from Video with ramp)

Practice Example:

If Mr Chio pulls a wagon full of rocks up Oxford hill with a force of 600N a distance of 300m, how much work did Mr Chio do?

