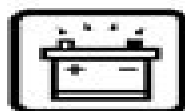


Work, Power, Energy Worksheet

Energy and work are interconnected—one can make the other.



Energy

Energy is stored work.
A battery can store energy to make things work whenever you want.

Energy can create forces,
which can cause motion,
which can do work.



Work



Work uses energy.
It takes energy to move things.
Energy can make things work.

Work can create energy.
A generator uses work to make energy,
which can be stored to do more work.

Work

Work is defined as a
force applied (moved)
through a distance.

$$\begin{array}{c} \text{Force (in newtons)} \\ \nearrow \\ \text{Work (in Joules)} \rightarrow W = Fd \\ \searrow \\ \text{Distance (in meters)} \end{array}$$

Work equals force times distance.

If you push harder (more force)
you do more work.
If you push longer (more distance)
you do more work.

- 1) A go cart engine applies a force of 888N and moves the cart forward 22m.

- a) How much work is done? (2 points)

$$\begin{aligned} W &= f \cdot d \\ W &= 888 \text{ N}(22 \text{ m}) \\ &= 19,536 \text{ J or} \\ &= 19.54 \text{ kJ} \end{aligned}$$

- b) What is doing the work? (1 point)

go cart engine is doing the work

- c) If the driver wants to go further will the amount of work increase or decrease? Do you need a bigger/stronger engine to go further? (2 points)

The amount of work will increase and a stronger engine is needed to go further.

- d) We put on a bigger engine (1111N) and the cart still moves forward 22m. How much work is done now? (2 points)

$$\begin{aligned} W &= f \cdot d \\ &= 1111 \text{ N}(22 \text{ m}) \\ &= 24,442 \text{ J} \\ &= 24.24 \text{ kJ} \end{aligned}$$

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