

Energy, Work, and Power

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 cause 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.

$$\text{Work (in Joules)} \rightarrow W = Fd$$
 Force (in newtons) distance (in meters)

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.

To do work, a force has to be in the direction of the motion.

Half of this force does work (the half that pushes parallel to the motion).

None of this force does work (none of it is parallel to the motion).

All of this force does work (it is all parallel to the motion).

Ex: You push a 1000 newton car 5 meters. How much work did you do?

$F = 1000 \text{ N}$ $d = 50 \text{ m}$ $W = ?$	$W = Fd$ $W = (1000 \text{ N})(50 \text{ m})$ $= 5,000 \text{ J (joules)}$ <i>(Doing 5,000 J of work takes 5,000 J of energy)</i>
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Ex: How much work does a kid do while sitting? The kid weighs 45 N.

No work — the kid is not moving. ($d = 0$, $W = 0$)

Power

How fast you do work is called power. If you work faster, you use more power.

$$\text{Power (in watts)} \rightarrow P = \frac{W}{t}$$
 Work (in joules) Time (in seconds)

Power equals work divided by time.

Putting in the work equation: $P = \frac{Fd}{t}$

A machine that works faster (in less time) is more powerful.

A more powerful light bulb gives off the same amount of light (work), it just does it faster.

Ex: You do 120 joules of work in 2 seconds. How much power did you use?

$W = 120 \text{ J}$ $t = 2 \text{ sec}$ $P = ?$	$P = W/t$ $= 120 \text{ J}/2 \text{ sec}$ $= 60 \text{ watts}$ <i>(same as a light bulb)</i>
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Ex: Two guys lift two 40 N rocks up a 5 m staircase. Bob does it in 10 seconds. Joe does it in 20 seconds. Compare their work and power.

Bob: $F = 40 \text{ N}$; $d = 5 \text{ m}$; $t = 10 \text{ s}$ $W = Fd = 40\text{N}(5\text{m}) = 200 \text{ J}$ $P = W/t = 200\text{J}/10\text{s} = 20 \text{ w}$	Joe: $F = 40 \text{ N}$; $d = 5 \text{ m}$; $t = 20 \text{ s}$ $W = Fd = 40\text{N}(5\text{m}) = 200 \text{ J}$ $P = W/t = 200\text{J}/20\text{s} = 10 \text{ w}$
They do the same amount of work (200 J), but Bob uses more power (20 w).	

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