

Unit 7 – Work, Energy, & Machines

Unit Big Idea: Energy is transferred when a force moves an object.

Lesson 1 – Work, Energy, and Power

Essential Question: How is work related to energy?

By the end of this lesson, you should be able to relate work to energy and power.

- **work** - the use of force to move an object some distance in the direction of the force.
 - you do work **ONLY** when you exert a force on an object and move it
 - done only by the part of the force that is in the same direction as the motion (net force)
- If you are pulling a sled through the snow, you pull the rope up at an angle while you pull the sled forward.
 - Only the part of the force pulling the sled forward is doing work.
 - The upward part of your force is not doing work because the sled is not moving upward.
 - The boy pushing the sled forward is doing work since the sled will move in the direction he is exerting force. This means the boy pushing is doing more work than the boys pulling the sled up the hill.
- work is a measure of how much force is applied to move an object a certain distance

Work = Force x distance

$$W = Fd$$



- force is given in Newtons (N); distance is given in meters (m)
- units of work are given in *newton-meter* (N•m) or the *joule* (J)
- **joule (J)** is standard unit to express work
 - 1 J of work is done when a force of 1 N moves an object 1 m.

- **energy** – the ability to do work (apply force to cause movement in the direction of the force)
 - ex: dog pulling sled, dog uses energy; swinging a tennis racket and hitting a ball, you use energy
 - transfer of energy doesn't have to be visible, ex: energy transferred to from a cup of hot chocolate to your hands as heat, particles in your hands move faster even though your hand itself doesn't move
 - units are joules (J)
 - work is the transfer of energy, because energy is transferred every time work is done

- **power** – rate at which work is done

Energy (work) = Power x time

$$E = Pt$$

$$P = \frac{E}{t}$$



- ex: when two cranes lift the same crate to the same height, they do the same amount of work. The crane that lifts the crate the fastest is the more powerful crane.

Work Energy And Machines Study Guide

Emilie Sanchez



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