

What is Energy?

Energy is the ability for one object to do work on another object. Usually energy is defined as a force that acts over a distance.

Most types of energy fall under two categories: *kinetic energy OR potential energy*. Kinetic energy is the energy that an object has when it's in motion. Potential energy is the stored energy in an object that is at rest. Forces like gravity and electric charge are what give all objects in this world potential energy.

The law of conservation of energy states that energy cannot be destroyed or created; it can only be transferred or transformed.

Some types of energy are: wind energy, chemical energy, solar energy, nuclear energy, geothermal energy, sound energy, hydro energy, elastic potential energy, gravitational potential energy.



DID YOU KNOW?

Over 1,000 homes can be powered for one year with 1 million tons of garbage. If all garbage in the United States was converted to energy it could power a city for one year.

If 10,000 schools turned off their lights for one minute it could save \$81,885.

The amount of energy Americans use *doubles* about every 20 years.

Volcanoes and geysers are examples of geothermal energy.

What is Energy? (continued)

MATCH THE ENERGY!

Match the type of energy that goes with the correct picture! Types: wind energy, chemical energy, solar energy, nuclear energy, geothermal energy, sound energy, hydro energy, elastic potential energy, gravitational potential energy.

