

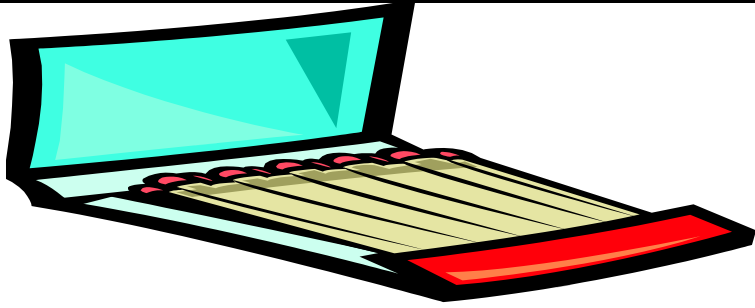
Energy Vocabulary Review

compound machine	two or more simple machines put together
conduction	transfer of heat by direct contact
convection	transfer of heat energy by movement of liquid or gas through currents
distant	how far an object moves
electrical energy	energy that comes from the movement of electrically charged particles
electrical circuit	pathway of of wire through which electrons can flow, usually includes battery, switch, and resister (bulb, bell etc.)
electromagnet	a magnet that is made by a coil of wire with electricity going through it & wrapped around an iron core
energy	ability to do work
force	a push or pull that can move an object
fulcrum	the point of support of a lever around which it moves

generator	machine that produces electricity by turning a magnet inside a coil of wire
heat energy	energy an object has due to the movement of its molecules
inclined plane	simple machine with a sloped surface or ramp
joule	unit of energy used to measure work
kinetic energy	the energy of an object due to its motion
Law of Conservation of Energy	law that states that energy can change form but cannot be created or destroyed
lever	simple machine with a long rigid bar that rests on and pivots around a support
light	form of energy that travels in waves and is visible by the human eye
magnetic force	when two poles repel or attract each other
magnetism	force of attraction between an object and a magnet

mass	amount of matter an object contains
mechanical energy	energy that an object has because of motion/or position
Newton (N)	unit used to measure the strength of force
potential energy	energy that an object has stored and can use
pulley	simple machine that has a wheel with a rope, chain, or cable wrapped around it
radiation	transfer of energy by electromagnetic waves
screw	simple machine that has an inclined plane wrapped around a cylinder
simple machine	machine that helps people work by reducing the force necessary to move an object
solar energy	energy that comes from the sun
sound energy	energy that moves through a space and produces noise

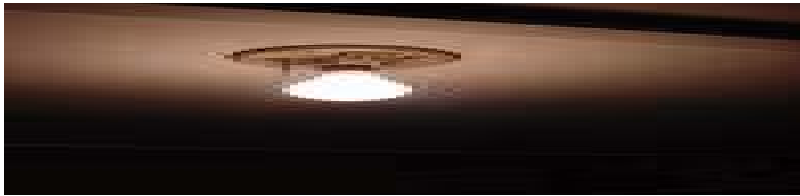
spring scale	tool used to measure weight or force in Newtons
technological design	applies scientific knowledge in order to develop a solution to a problem or to create a product to help meet human needs
1st step of technological design	indentify a problem or need
2nd step of technological design	design a solution or product
3rd step of technological design	implement the design
4th step of technological design	evaluate the solution or the product
wedge	simple machine that has a moving inclined plane with 1 or 2 sloping sides
weight	measurement of the force of gravity on an object
wheel and axle	simple machine with a shaft inserted through the middle (like a circular lever)



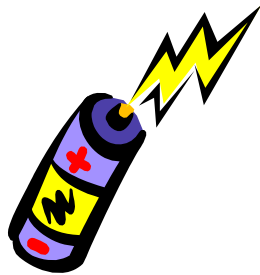
chemical → mechanical → sound → heat → light



electrical → sound → heat → light



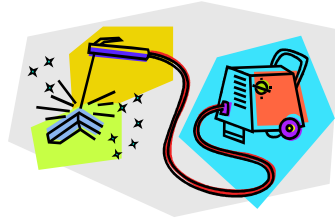
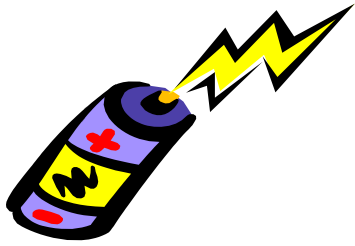
electrical → heat → light



chemical energy



mechanical energy



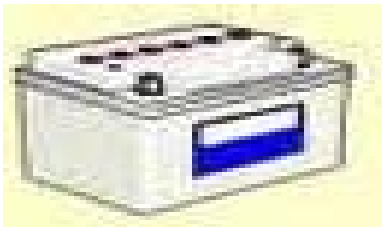
sources of electrical energy



light & heat



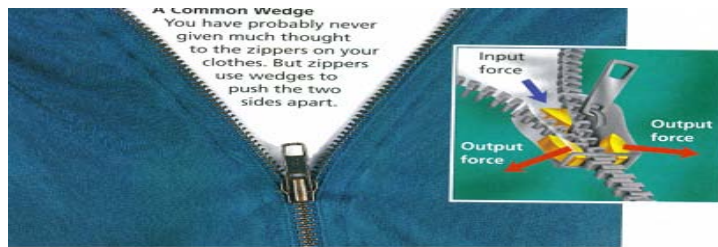
heat & light



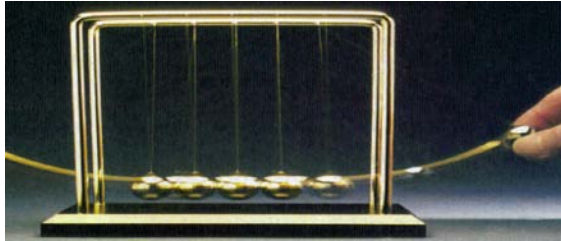
chemical



solar



wedge



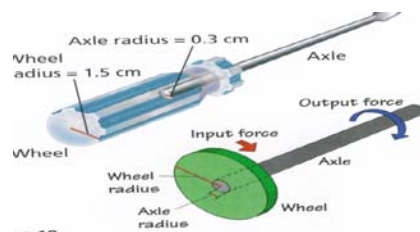
energy can pass from one object to another



three classes of levers



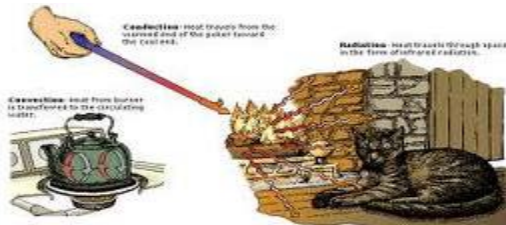
compound machine



wheel & axle



heat transfer(conduction, convection & radiation)



heat transfer (conduction, convection & radiation)



forms of energy



elastic potential energy



gravitational potential energy