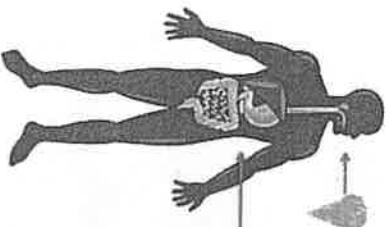


Energy Transformation



Chemical energy, stored within the chemical bonds of food, begin to break down with saliva and chewing in the mouth

During digestion, the chemical bonds in the food molecules are broken, and the stored energy is converted to mechanical energy, used to do work like blinking and repairing cells, or thermal energy, used to regulate body temperature

The change of energy from one form to another.

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Organism Energy Transfers

Picture Vocabulary

Force, Motion, and Energy

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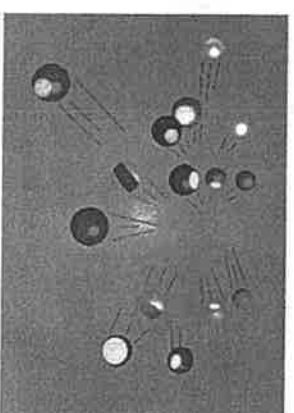
Kinetic Energy



Energy of motion.

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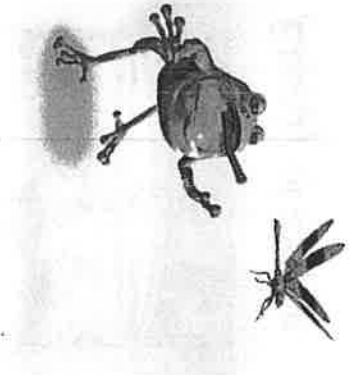
Law of Conservation of Energy



Energy can neither be created nor destroyed; energy just changes form.

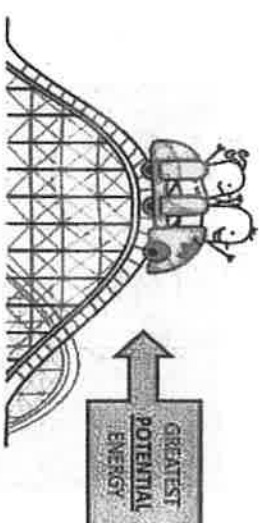
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Mechanical Energy



The sum of the potential and kinetic energy of an object.

Potential Energy



Energy stored in systems or objects

Thermal Energy



Thermal energy is the total kinetic (motion) energy of tiny particles that make up matter. The faster the particles move, the warmer the matter becomes.

Chemical Energy



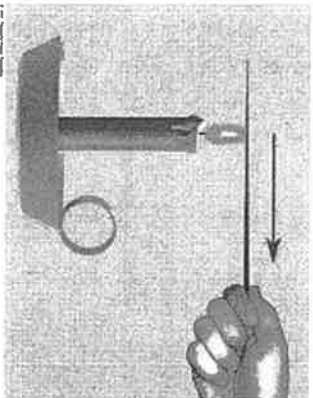
Solar energy is converted to chemical energy by photosynthesis.



Stored chemical energy is changed by digestion.

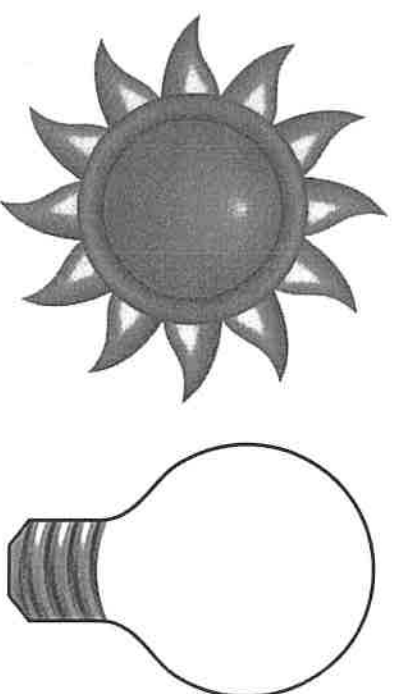
Energy stored in chemical bonds and released through chemical reactions.

Conduction



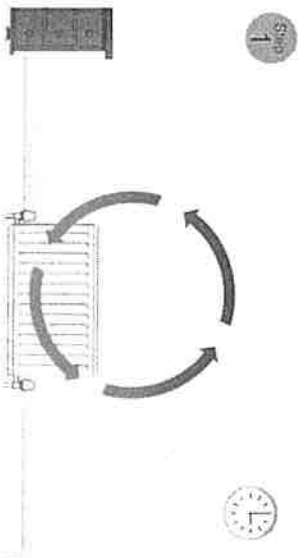
Transfer of thermal energy by contact

Radiant/Light Energy



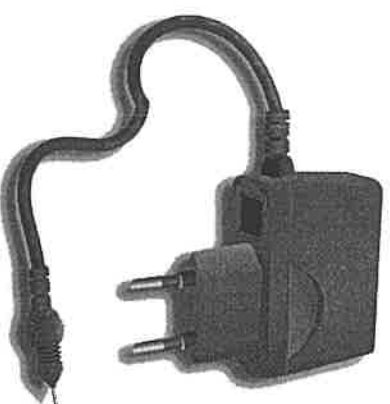
Energy that travels in waves as electromagnetic radiation.

Convection



Transfer of thermal energy by currents

Electrical Energy



Energy resulting from the flow of charged particles.

