

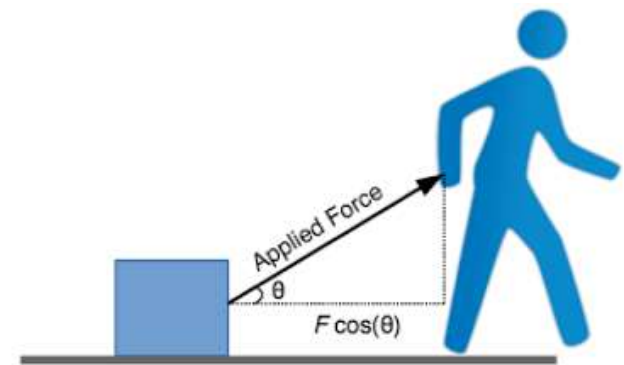
Energy Transformations

Mr. G. Martinez
8th Grade Science

TEKS 6.8 (C)

Energy

**The ability to do work or
create a change on the
position or the motion of an
object**



Law of Conservation of Energy

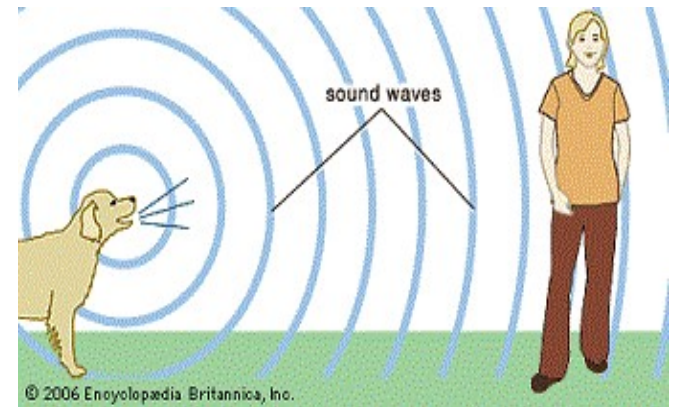
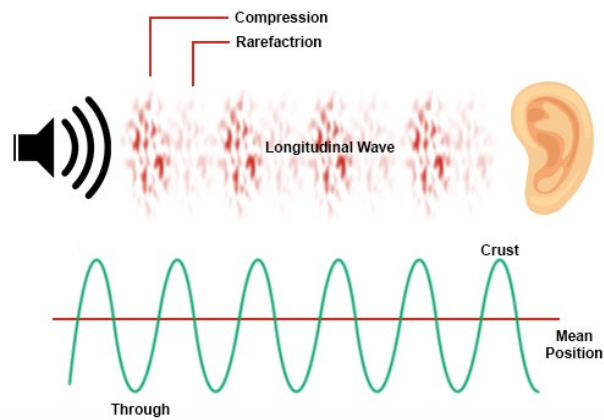
**Energy cannot be created nor
destroyed, it can only be
changed from one form to
another**

Energy Transformation

**When energy changes from
one form into another**

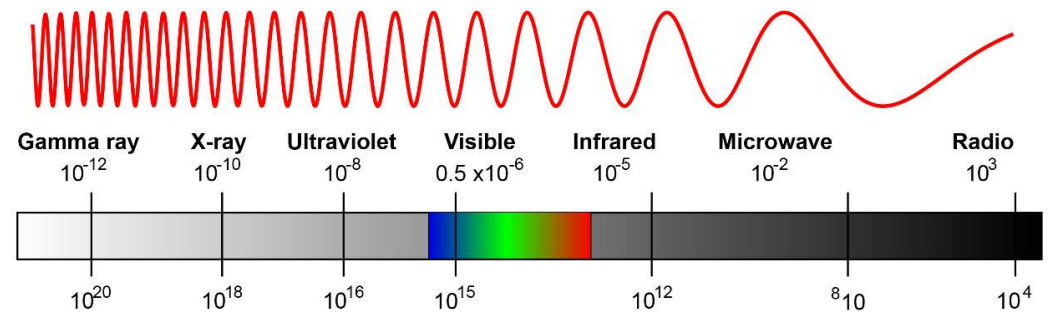
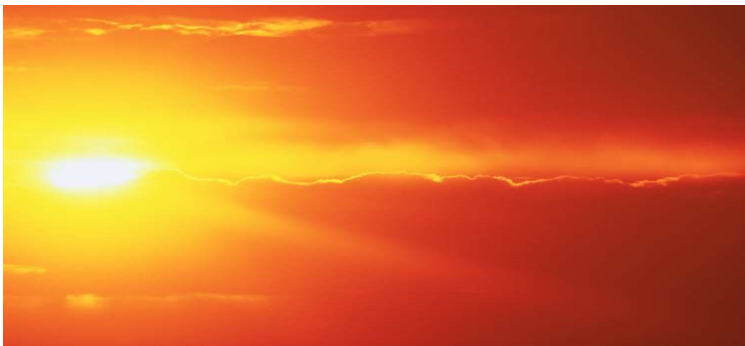
Sound Energy

Energy created by sound waves traveling through a medium such as air, water, and soil



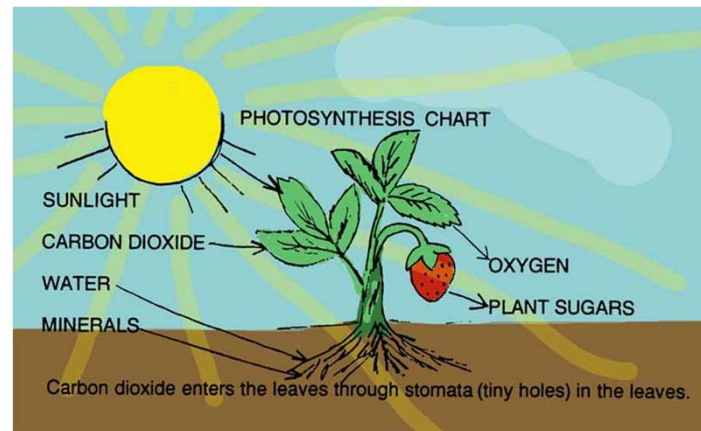
Radiant Energy

Energy of light waves traveling through a medium. Also known as electromagnetic waves



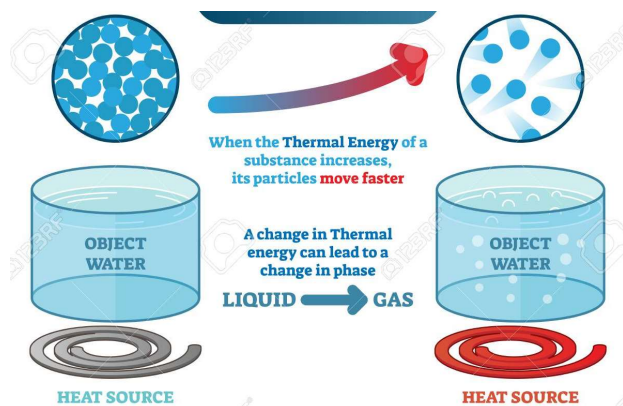
Photosynthesis

When Radian energy (light) is changed into Chemical energy (sugar) in the leaf of a plant



Thermal Energy

Energy created by vibrating molecules in objects producing heat. The faster the vibration, the hotter the object gets



Electrical Energy

Energy of charged particles (electrons) moving through a conductor (wire) as electrical current

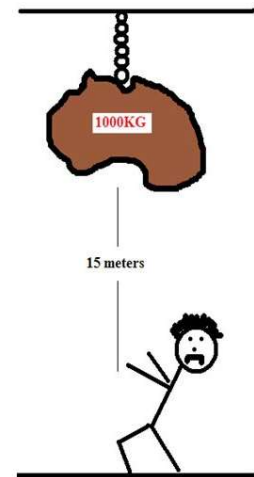
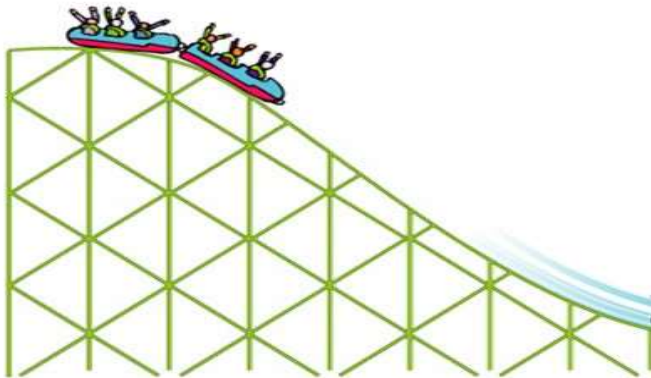


Mechanical Energy

**The combination of all
Potential and Kinetic Energies
used on moving objects when
doing work**

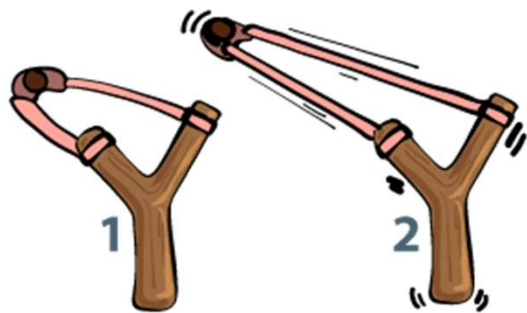
Gravitational Energy

Potential energy stored in objects due to their elevation and mass



Elastic Energy

Potential energy in objects
that are stretched or
compressed.



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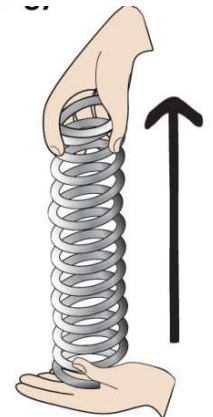
When compressed or stretched, a spring gains elastic potential energy.



static



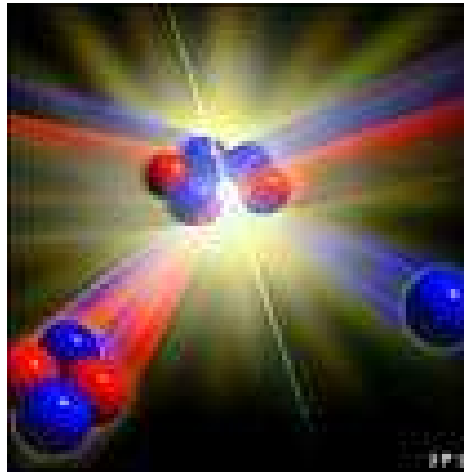
compressed



stretched

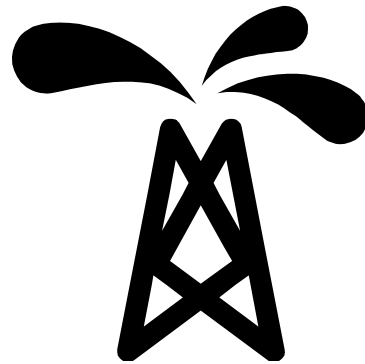
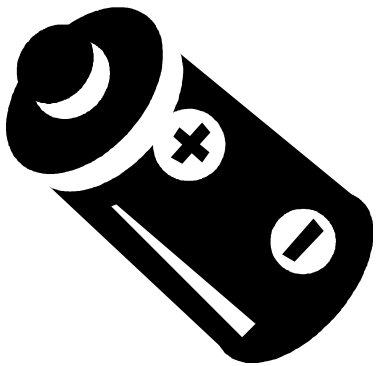
Nuclear Energy

**A type of potential energy
stored in the nucleus of atoms**



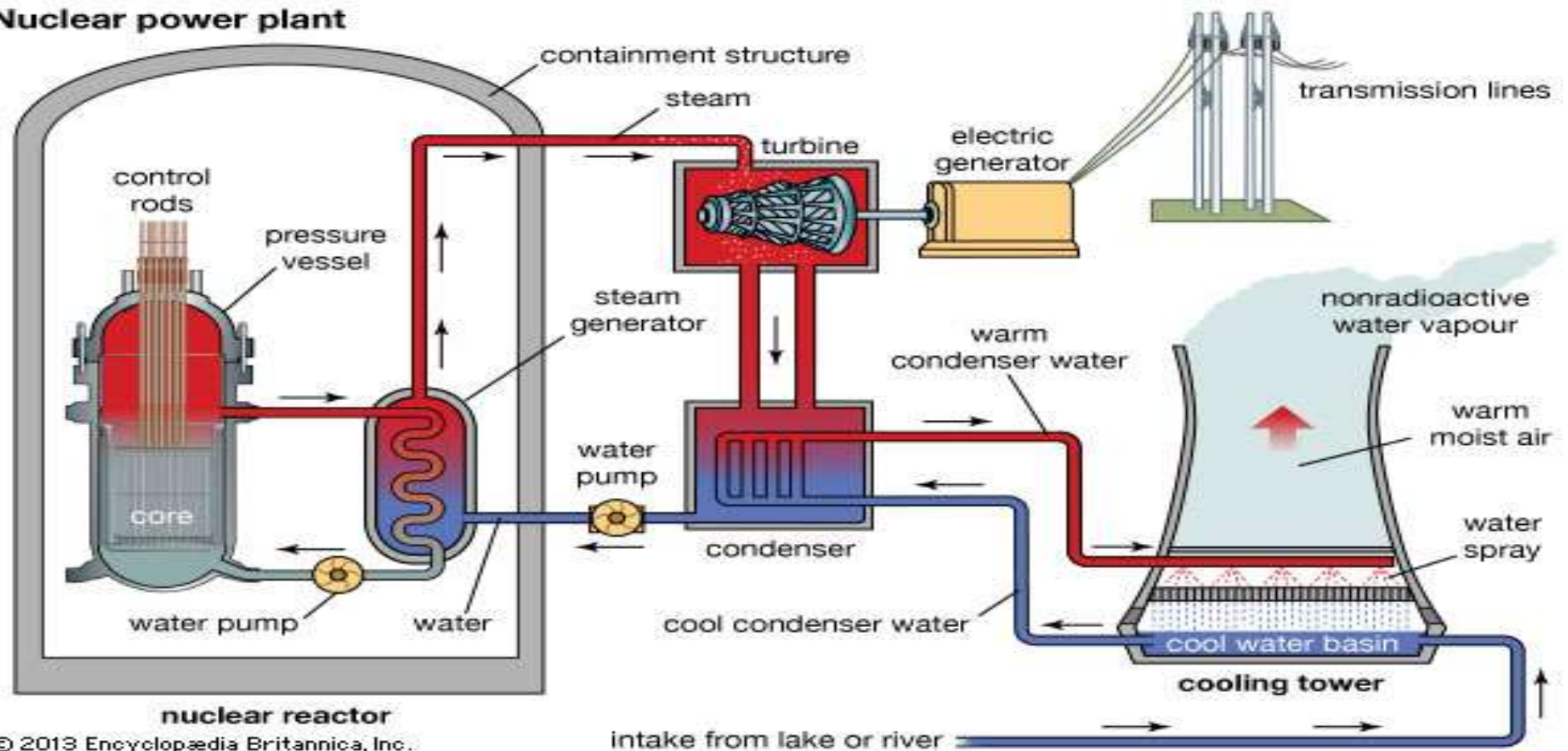
Chemical Energy

Energy stored in chemical bonds (fossil-fuels, food, batteries and photosynthesis)



Nuclear Energy

Nuclear power plant



Photosynthesis

