Forms of Energy

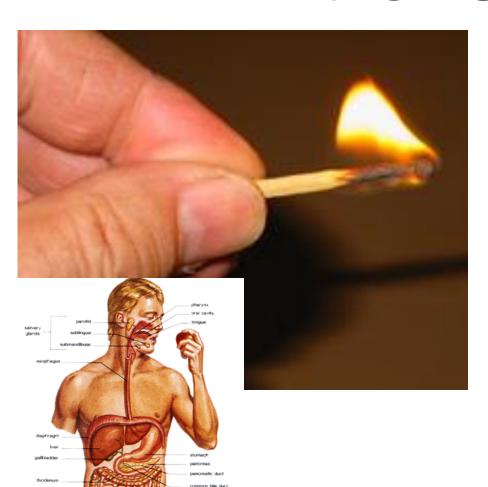
Forms of Energy

- 1. All energy falls into two categories:
- Potential: <u>stored energy</u> and energy of <u>position</u>
- Kinetic: <u>motion</u> of waves, electrons, atoms, molecules and substances.

2. What Forms of Energy Are There?

POTENTIAL	KINETIC
Chemical Energy	Radiant Energy
Nuclear Energy	Electrical Energy
Gravitational Energy	Mechanical Energy
	Sound Energy
	Thermal Energy

1. Chemical

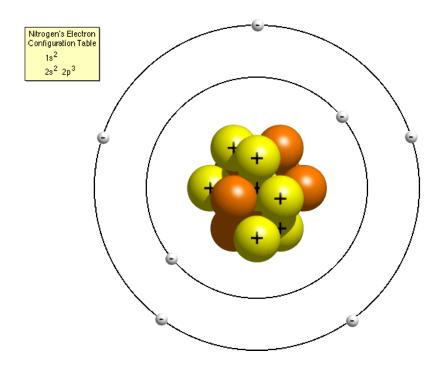


Energy stored in the bonds of atoms and molecules.

Example: Matches, Digestion, batteries

2. Nuclear

 Energy stored in the nucleus of an atom. The energy that holds the nucleus together.



Example: Breaking down Uranium, fusion (sun and stars), fission

3. Gravitational



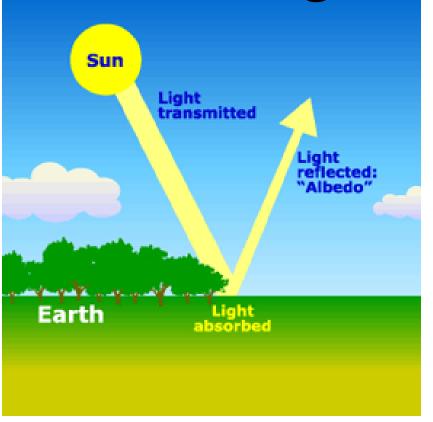
Example: things that can fall or swing.

Energy of place or position.

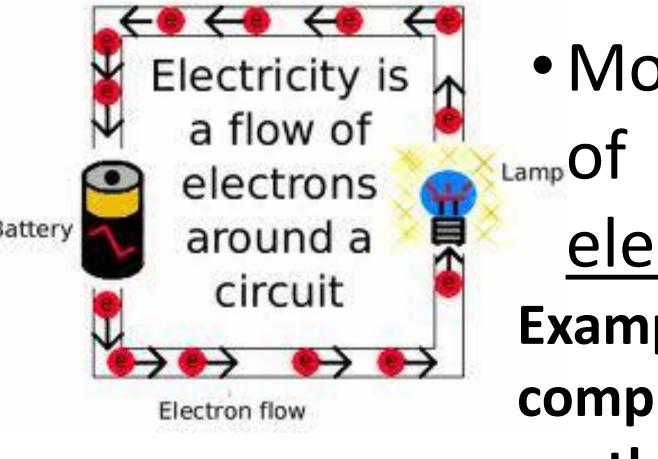
Higher=more gravitational energy.

4. Radiant

 Electromagnetic energy that travels in waves like light. Example: Visible Light



5. Electrical



Movementof

electrons.

Example: lamp, computer, anything that plugs in.

6. Mechanical



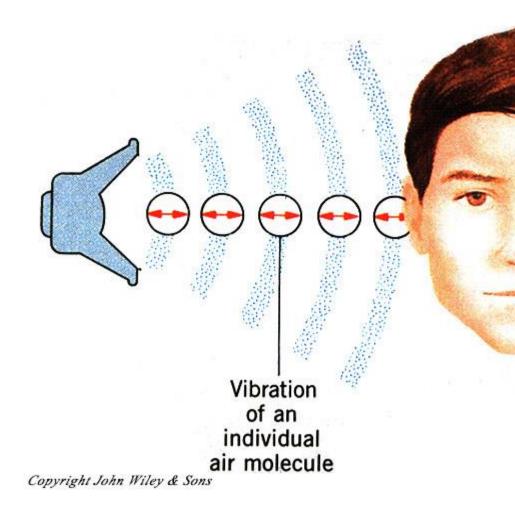
Example: Riding a bike

The movement of a substance from one place to another. Energy of Motion.

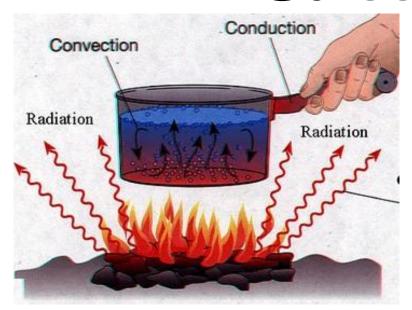
7. Sound

 Movement of energy through substances in vibrations.

Example: bell



8. Thermal



Example: stove boiling water

- internal energy of an object due to the kinetic energy of its atoms and/or molecules.
- HEAT.



