Ch. 2 Study Guide

***Energy and Change***

\*When water melts, it changes from a solid to a liquid.

\*When water changes to a solid, it freezes.

\*When water changes from a liquid to a gas, it evaporates.

\*Energy is the ability to move something or cause a change in matter.

\*Space that contains no matter is called a vacuum.

\*Stored energy in matter can cause matter to change or move.

\*You can see light energy; it is *visible*.

\*An insulator is a material that does not conduct heat well.

\*A conductor is a material that heat travels through easily.

\*A solar collector makes heat energy from light energy.

\*Opaque objects block light

\*Particles in matter move faster when heat is added.

\*Standing on a diving board is an example of stored energy.

\*Heat is the energy of moving particles of matter.

\*Heat energy is often produced when energy changes form.

\*Moving matter has energy of motion.

\*An object reflects the color light you see (A red object reflects only red light).

\*Friction makes it difficult for two objects to move past each other

\*Fuel stores chemical energy

\*Radiation is the movement of heat energy in waves.

\*Sound is energy you can hear.

\*Energy can cause something to move.

\*When a match burns, its chemical energy changes to heat and light energy.

\*Electrical energy changes to heat and light when a light bulb is turned on.

\*Woven cotton and wool fibers in clothing can trap air to help keep you warm.