**Study List**

Chapter 2

* Definition of the following words: bonds, change, decomposition, electromagnetic waves, joules, mass, molecules, number, solid, solutions, speed, synthesis, temperature, wavelength, work
* The nature of physical and chemical changes (what is the difference? How are they defined)
* For what physical changes is energy absorbed or released?
* Give everyday examples of physical and chemical changes
* What is the difference between energy transformation and transfer?
* Be able to name examples of transfer and transformation (example: sunlight hits a plant which grows into a beautiful flower. Radiant energy is transferred from the sun to the plant. So is some thermal energy. This is transformation from radiant energy to chemical energy as the plant grows and becomes food for animals.)
* Know the terms reagent/reactant and product in a chemical equation. Reagents/reactants are the starting materials and products are what get made from those.
* Be able to name which wavelengths on the electromagnetic spectrum have the highest and lowest energy (from radio waves to gamma radiation). Know the order and types.
* Be able to count the number of atoms in a chemical formula. For example: C3H8 has three carbon atoms and eight hydrogen atoms.