**Chapter 2**

1. Define Matter.  Distinguish between the following: atoms, ions, acidity, molecules, isotopes, protons, neutrons, electrons, atomic number, pH .
2. List three physical properties of matter.
3. Describe an acidic solution, basic solution.
4. Define organic compound.  Describe the 7 different kinds of organic compounds. Contrast organic and inorganic.
5. What are genes, traits and chromosomes
6. Define and distinguish between a physical change and Chemical change. What is a nuclear change? What is radioactive decay, Nuclear fission, nuclear fusion
7. What is the Law of Conservation of Matter?
8. Define energy.  Distinguish between kinetic and potential energy, give examples of each. What is heat( Thermal energy) define and give 2 examples of electromagnetic radiation.
9. Define and give examples of renewable and nonrenewable energy. What is high quality energy and low quality energy?
10. What is the first law of thermodynamics( law of conservation of matter) why is it important?  What is the second law of thermodynamics? Why is it important?
11. What is a positive feedback loop? Negative feedback loop