Matter

 Mass

 Weight

Atom

 Elements

 Periodic Table

Molecules

 Compounds

 Atomic Number

 Mass Number

 Isotopes

Radioactivity

 Radioactive Decay

 Half-life

Distinguish between the three

types of chemical bonds

 Covalent Bonds

 Ionic Bonds

 Hydrogen Bonds

 Polar Molecule

The basic properties of water

 Surface Tension

 Capillary Action

 Boiling/Freezing Points

Acid

Base

pH

Chemical Reaction

Law of Conservation of Matter

There are two forms of chemical

compounds

 Inorganic Compounds

 Organic Compounds

 Carbohydrates

 Proteins

 Nucleic Acids

 DNA

 RNA

 Lipids

 Cells

Why is energy necessary for

All living organisms?

 Energy

 Electromagnetic Radiation

 Photons

Measurement of Energy

What forms does Energy come in?

 Potential

 Chemical Energy

 Kinetic

 Temperature

Understand both Laws of Thermodynamics

 1st Law

 2nd Law

 Energy Quality

 Entropy

Compare an open and closed system

 Inputs

 Outputs

 System Analysis

Steady State

Feedback

 Negative Feedback Loops

 Positive Feedback Loops