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