

# Intro to Science and Macromolecules

There isn't one way to design an experiment! However, this is the normal sequence:

1. Ask a question
2. Conduct background research
3. Construct a hypothesis
4. Test your hypothesis in an experiment
5. Analyze data
6. Draw conclusions and communicate them

**Independent Variable:** what the experimenter will deliberately change or manipulate in the investigation

- Usually on the x-axis of a graph

**Dependent Variable:** what changes in response to the independent variable

- On the y-axis of a graph
- what is measured

**Experimental Group:** group that is being experimented on. The group where you change the IV

**Control Group:** group used for comparison with your experimental groups. This is the "normal" group.

**Constants:** the aspects of an experiment that are held the same

**Correlation does not equal Causation:** measured in the DV is caused only by the IV

## Characteristics of Life

1. Made of cells
2. Have DNA/RNA
3. Reproduce
4. Use energy
5. Maintain Homeostasis
6. Respond to stimuli
7. Grow/develop
8. Evolve (as a population)

## Basic Chemistry:

Reactants: what you start with

Products: what you make

Protons: positive charge

Neutrons: no charge

Electrons: negative charge

Polar molecule: unequal sharing of electrons (one side is positive other side is negative)

Hydrophilic: loves water

because it is polar

Hydrophobic: hates water

because it is nonpolar

Main elements in living things:

CHNOPS: carbon, hydrogen, nitrogen, oxygen, phosphorus, sulfur

## Macromolecules

Name:	Function:	Structure:	Monomer:	Examples:	Made out of:
Carbohydrate	Store some energy		Monosaccharide	Starch, Glycogen, Pectin, Sucrose	CHO 1 Carbon 2 Hydrogen 1 Oxygen + 2 H water
Lipid	Long term storage and insulation in the cell membrane		Glycerol and fatty acids	Fats, Oils, Waxes, Steroids	CHO C H O N P
Protein	Enzymes, antibodies, structure		Amino Acid	Chicken, Beef, Eggs	CHO C H O N S P
Nucleic Acid	Stores genetic information		Nucleotide	DNA and RNA	CHO C H O N P

# Macromolecules Study Guide

**Peipei Pang**



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