

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.

Controlled: other aspects of an experiment that are held the same

Macromolecules: large molecules measured in the DM

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

CH₂O (carbon, hydrogen,

nitrogen, oxygen, phosphorus,

water, etc.)

Macromolecules:

Name	Function	Structure	Properties	Examples	Characteristics
Carbohydrates	Structural component of cells		Water-soluble, energy source	Glucose, Fructose, Sucrose	CH ₂ O, 1-6 carbons, 2-5 hydroxyl groups, + H ₂ O
Lipids	Storage, energy source, structural component		Water-insoluble, energy source	Fats, Oils, Waxes	CH ₂ O, ester bonds, + H ₂ O
Proteins	Structural, catalytic, regulatory, transport		Water-soluble, energy source	Enzymes, Hemoglobin, Keratin	CH ₂ O, amide bonds, + H ₂ O
Nucleic Acids	Structural, genetic information		Water-soluble	DNA and RNA	CH ₂ O, nitrogenous bases, + H ₂ O

Organic Macromolecules Study Guide Answers Biology

JL Elias

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