

Carbs 1

Elements: C, H, O with a ratio of 1:2:1

Carbs 2

Monomer: monosaccharide

Carbs 3

Polymer: polysaccharide
(saccharide = sugar)

Carbs 4

Function: Immediate energy and
Structure

Carbs 5

Examples:

Plants = cellulose and starch and
Animals = glycogen

Lipids 1

Elements: C, H, O with C-H chains

Lipids 2

Monomer: fatty acid

Lipids 3

Polymer: no true polymers

Lipids 4

Function: Stored energy, Structure, and Protection and insulation

Lipids 5

Examples:

Triglyceride = fat

Phospholipid = part of cell membrane

Wax, Hormones, Steroids, and Cholesterol

Protein 1

Elements: C, H, O, N

Protein 2

Monomer: amino acid

Protein 3

Polymer: polypeptide

Protein 4

Function: Structure, Chemical reactions,
Movement, Transport oxygen, Immunity
(defense)

Protein 5

Examples:

transport proteins, enzymes, muscle proteins, hemoglobin, antibodies

Nucleic Acid 1

Elements: C, H, O, N, P

Nucleic Acid 2

Monomer: nucleotide

Nucleic Acid 3

Polymer: DNA, RNA

Nucleic Acid 4

Function: Genetic information – stores and transports

Nucleic Acid 5

Examples: DNA, RNA, ATP