Macromolecule Graphic Organizer Foldable

Directions:

Outside

1. Fold one sheet of plain paper in half (hot dog style). Fold in half two more times to create 4 tabs.
2. Cut each crease and colorfully label the outside with the following:
    - Carbohydrates
    - Lipids
    - Proteins
    - Nucleic Acids
3. Provide a color illustration or picture of at least one food in which the first three can be found. Provide an illustration of where a nucleic acid can be found.

Inside

4. Use the PowerPoint lecture to complete the inside of the foldable.
5. On the back of each tab provide an illustration of what the molecule looks like.

Inside KEY:

Carbohydrates
Monomers: monosaccharides (simple sugars)
Elements: C, H, O – 1:2:1 ratio
Types: monosaccharides, disassachrides, polysaccharides
Examples: glucose, galactose, fructose (mono)
Sucrose, lactose, maltose (di)
Glycogen (animal), cellulose (plants) (poly)
Function: provide energy, structural purposes

Lipids
Monomers: fatty acids
Elements: C, H, O
Types: Triglycerides (oils& fats), Phospholipids (waxes), steroids
Examples: olive oil, lard, ear wax
Function: energy, biological membranes

Proteins
Monomers: amino acids
Elements: C, H, O, N
Examples: Enzymes, hemoglobin
Function: hormones, speed up reactions, transport substances, fight diseases

Nucleic Acids
Monomers: nucleotides
Elements: C, H, O, N, P
Types: DNA, RNA
Function: DNA – stores genetic information; RNA – builds proteins