

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Macromolecule CER Stations

Directions: Pick four molecules and make sure you have one from each macromolecule category. Based on the evidence presented about each molecule, write claim, evidence, and reasoning statements for each.

<b>Carbohydrates</b>	<b>Nucleic Acids</b>	<b>Lipids</b>	<b>Proteins</b>
Atoms: CHO	Atoms: CHONP	Atoms: CHO	Atoms: CHONS
Structure: Typically rings called monosaccharides; can be chains of rings	Structure: Composed of nucleotides that are single or double stranded	Structure: Made of fatty acids (long chains of hydrocarbons with single or double bonds)	Structure: Chains of amino acids that are folded in particular ways to function properly
Function: Short term (or long term) energy and structure for cell walls	Function: Heredity and codes for proteins	Function: Long term energy storage and cell membranes	Function: Highly varied - enzymes, transport, immune system, movement

#### Molecule #1

Claim:

\_\_\_\_\_ is a {carbohydrate, nucleic acid, lipid, or protein}.

Evidence: Using the data sheet and the chart above, write a sentence explaining the evidence for your claim.

---

---

Reasoning: In a sentence, connect your evidence to scientific reasoning/knowledge.

---

---

#### Molecule #2

Claim:

\_\_\_\_\_ is a {carbohydrate, nucleic acid, lipid, or protein}.

Evidence: Using the data sheet and the chart above, write a sentence explaining the evidence for your claim.

---

---

Reasoning: In a sentence, connect your evidence to scientific reasoning/knowledge.

---

---

Reference Table:

<b>Carbohydrates</b>	<b>Nucleic Acids</b>	<b>Lipids</b>	<b>Proteins</b>
Atoms: CHO	Atoms: CHONP	Atoms: CHO	Atoms: CHONS
Structure: Typically rings called monosaccharides; can be chains of rings	Structure: Composed of nucleotides that are single or double stranded	Structure: Made of fatty acids (long chains of hydrocarbons with single or double bonds)	Structure: Chains of amino acids that are folded in particular ways to function properly
Function: Short term (or long term) energy and structure for cell walls	Function: Heredity and codes for proteins	Function: Long term energy storage and cell membranes	Function: Highly varied - enzymes, transport, immune system, movement

Molecule #3

Claim:

\_\_\_\_\_ is a {carbohydrate, nucleic acid, lipid, or protein}.

Evidence: Using the data sheet and the chart above, write a sentence explaining the evidence for your claim.

---

---

Reasoning: In a sentence, connect your evidence to scientific reasoning/knowledge.

---

---

Molecule #4

Claim:

\_\_\_\_\_ is a {carbohydrate, nucleic acid, lipid, or protein}.

Evidence: Using the data sheet and the chart above, write a sentence explaining the evidence for your claim.

---

---

Reasoning: In a sentence, connect your evidence to scientific reasoning/knowledge.

---

---