

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

## Macromolecules Worksheet

1. What is the difference between a monomer and a polymer?
2. When polymers are broken down into monomers, what are those monomers used for?
3. Monomer of a carbohydrate? \_\_\_\_\_ Polymer? \_\_\_\_\_
4. How many rings are in a monosaccharide? \_\_\_\_\_ Disaccharide? \_\_\_\_\_ Polysaccharide? \_\_\_\_\_
5. What is the most common monosaccharide? \_\_\_\_\_
6. What is the most common polysaccharide in plants? \_\_\_\_\_ in animals? \_\_\_\_\_
7. Monomer of a lipid? \_\_\_\_\_ polymer? \_\_\_\_\_
8. Circle the correct answer:

(a) Are lipids polar or non-polar?	Polar	Non-polar
(b) Are lipids soluble in water?	Yes	No
(c) Is water polar or non-polar?	Polar	Non-polar
9. Monomer of a protein? \_\_\_\_\_ polymer? \_\_\_\_\_
10. Monomer of a nucleic acid? \_\_\_\_\_ polymer? \_\_\_\_\_

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# Macromolecules Worksheet

## Answers

1. What is the difference between a monomer and a polymer?  
A monomer is a small chemical unit that makes up a polymer. A polymer comprises many monomers, making up macromolecules.
2. When polymers are broken down into monomers, what are those monomers used for?  
They are used in the body as carbohydrates, lipids, and proteins.
3. Monomer of a carbohydrate? Monosaccharide Polymer? Polysaccharide
4. How many rings are in a monosaccharide? 1 Disaccharide? 2 Polysaccharide? Many
5. What is the most common monosaccharide? Glucose
6. What is the most common polysaccharide in plants? Starch in animals? Glycogen
7. Monomer of a lipid? Fatty acids polymer? Lipids
8. Circle the correct answer:

(a) Are lipids polar or non-polar?	Polar	<u>Non-polar</u>
(b) Are lipids soluble in water?	Yes	<u>No</u>
(c) Is water polar or non-polar?	<u>Polar</u>	Non-polar
9. Monomer of a protein? Amino acid polymer? Peptide
10. Monomer of a nucleic acid? Nucleotides polymer? Nucleic acid