

Name \_\_\_\_\_

Period \_\_\_\_\_

Ms Foglia

Date \_\_\_\_\_

**AP: CHAPTER 5A**  
**MACROMOLECULES**

1. Define the following:

a. monomer \_\_\_\_\_

\_\_\_\_\_

b. polymer \_\_\_\_\_

\_\_\_\_\_

c. condensation reaction \_\_\_\_\_

\_\_\_\_\_

d. hydrolysis \_\_\_\_\_

\_\_\_\_\_

2. Which foods do you think will enter the blood the quickest? Why?

\_\_\_\_\_

\_\_\_\_\_

3. What are the general roles of carbohydrates? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. List some monosaccharides with their molecular formulas.

\_\_\_\_\_

\_\_\_\_\_

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5. Double sugars are called \_\_\_\_\_  
List the monosaccharides that form each:

a. maltose \_\_\_\_\_

b. sucrose \_\_\_\_\_

c. lactose \_\_\_\_\_

6. Polymers of sugars form \_\_\_\_\_

7. Which forms of polysaccharide is best for each function:

a. Strength of structure \_\_\_\_\_

b. Storage and sugar release \_\_\_\_\_

c. What theme is this addressing? \_\_\_\_\_

8. How does the alpha differ from the beta form of glucose and why is it significant to animals?

\_\_\_\_\_  
\_\_\_\_\_

9. How do the role and structure of the following polysaccharides compare?

a. starch \_\_\_\_\_

b. glycogen \_\_\_\_\_

c. cellulose \_\_\_\_\_

10. Ninety percent of Asians, 75% of African-Americans, and a much smaller percent of northern Europeans are lactose intolerant. Why do you suppose we see this pattern?

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\_\_\_\_\_  
\_\_\_\_\_