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

1. How many carbon, hydrogen, and oxygen atoms are in your completed simple sugar model? (3 pts)

C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ H\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ O\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use these numbers to write the molecular formula for glucose: C H O

1. Make a drawing of your glucose molecule (2pts)
2. How many carbon, hydrogen, and oxygen atoms are in your completed fructose? (3 pts)

C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ H\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ O\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use these numbers to write the molecular formula for glucose: C H O

1. How many carbon, hydrogen, and oxygen atoms are in your competed sucrose? (3 pts)
2. C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ H\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ O\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use these numbers to write the molecular formula for glucose: C H O

1. What molecule is formed after being removed from the glucose and fructose models to make sucrose? (1 pt)
2. Summarize dehydration synthesis using complete sentences. Explain why dehydration synthesis is an appropriate term for this process. (4 pts)
3. Based on the information gathered during this activity, why are carbohydrates excellent sources of energy for organisms? Answer in complete sentences. (4 pts)