

Name _____

Period _____

Regents Biology

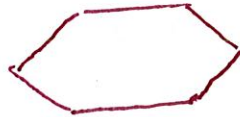
Date _____

CARBOHYDRATES REVIEW

1. List 3 foods that contain mostly carbohydrates. bread
fruits pastas

2. Carbohydrates are chains of what smaller organic molecule? monosaccharides

3. Draw a simple picture of this smaller building block molecule.



4. List 3 ways that living creatures use carbohydrates.

a. usable energy

b. stored energy

c. makes up cell wall

5. Give 2 examples of carbohydrates in living organisms.

glucose ^{use for} respiration cellulose ^{makes} cell wall

6. List the names of 3 sugars. monosaccharide, disaccharide,

polysaccharide glucose lactose
fructose galactose

7. Most sugars end in what 3 letters? OSE

8. Another name for a sugar is... saccharide

9. What is meant by a monosaccharide? made of one sugar

10. What is meant by a disaccharide? made of 2 sugars

Scientific method practice

A student thinks that drinking one 12 oz. Coca-Cola with caffeine just before squeezing a clothespin would allow a him to squeeze the clothespin more times than if he did not drink a Coca-Cola before squeezing the clothespin.

Design a controlled experiment to test the student's hypothesis. In your experimental design be sure to: *The Effect of drinking... on the # of times..*

- State a title for your experiment (1 pt)
 - Make a hypothesis for your experiment (1 pt) *if you drink... then you will...*
 - State the dependent variable (1 pt) *# of times*
 - State the independent variable (1 pt) *drinking...*
 - State three controlled factors (3 pts) *clothespin type room temp temp of cola*
 - Explain how the experimental group would be treated differently than the control group (1 pts) *ex drink control no drink*
 - State the data to be collected (1 pt)
 - Describe what data you would expect to see if the data supports your hypothesis (1 pt) *drink group produces more squeezes*
- 2 equal groups*
1 drink then squeeze
1 no drink then squeeze
count # of squeezes
compare

Coca-Cola Experiment Answers

- The Effect of drinking one 12oz. Coca-Cola with caffeine on the # of times a clothespin can be squeezed.
- If you drink one 12oz. Coca-Cola before squeezing a clothespin you will produce more squeezes.
- # of clothespin squeezes
- drinking one 12oz. Coca-Cola
- type of clothespin
- room temp.
- Coca-Cola temp.
- experimental - drinks Coca-Cola
- control - does not drink Coca-Cola
- # of clothespin squeezes of each group
- experimental group produces more squeezes