Name:	Date:

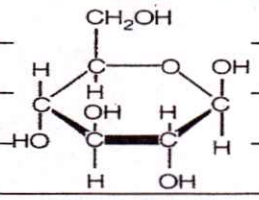
Period:	Do Now# 1.9	Homework# 1.9

Aim: How do we explain the importance of CARBOHYDRATES?

Vocabulary: (9)

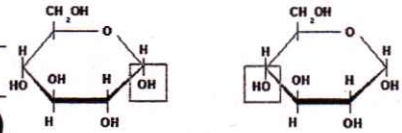
1. Carbohydrates
2. Glucose
3. Hydrolysis
4. Dehydration Synthesis
5. monosaccharide
6. disaccharide
7. polysaccharide
8. Starch
9. Glycogen

How do we describe Carbohydrates?	a. Examples are Sugars and Starches b. Contain C, H, O. (Ratio 1 : 2 : 1) c. Provide energy. d. Have a ring structure.
What is the **simplest** form of **Carbohydrates**?	a. Monosaccharide (1 sugar unit) Example: Glucose (simplest form of starch)
How do we **combine** small molecules of sugars?	• Dehydration synthesis b. Disaccharide (2 sugar units) Examples: maltose lactose sucrose
	c. Polysaccharide (many sugar units) Examples: Cellulose (plant cell wall) Starch (plants) Glycogen (animals)
How do we **break down** complex molecules?	• Hydrolysis LYSIS
Homework Pass to the 5 best tweets!	**WRITING ACTIVITY:** **Write a TWEET to Justin Bieber about the importance of Carbohydrates.**

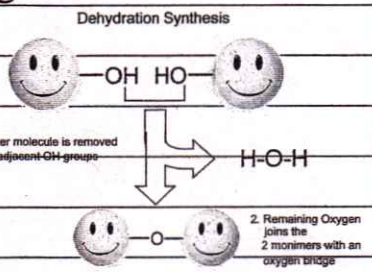


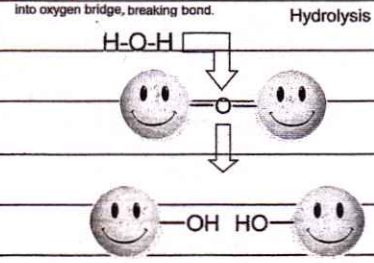
GLUCOSE

Dehydration Synthesis



form a bond while losing a water molecule





Summary: 2 points

Carbohydrates are important because
The simplest form of carbohydrates is
Combining glucose is through
Breaking down starch is through

Practice Worksheet: Scientific Method

Base your answers to questions 1 through 5 on the data table and information below and on your knowledge of biology. The data table describes various pH levels.

pH Levels

pH	pH Description
1	very acidic
5	slightly acidic
7	neutral
9	slightly basic
13	very basic

A scientist is concerned about the effects of acid rain on newly fertilized fish eggs in lakes in the Adirondack Mountains of New York State. The scientist would like to investigate the hatching rates of these fish eggs in water at different acidic pH levels. The scientist designed an experiment that could show the effect of an acid pH on the hatching of these fish eggs.

1. State how the control group would be treated differently from the experimental groups. [1]

2-3 State *two* factors that must be kept the same in both the experimental groups and the control group. [1]

4 Describe the type of data to be collected. [1]

5. State *one* example of experimental results that would show that the increasing acidity of lake water has a *negative* effect on the hatching rate of fish eggs. [1]