

Unit 1: Biochemistry

Vocabulary and Learning Objectives

Vocabulary

Directions: Rate your understanding of each word based upon the given scale below:

Key Word	Before Instruction	After Instruction
pH Scale		
Acidic		
Basic		
Buffer		
Inorganic Molecule		
Organic Molecule		
Monomer		
Polymer		
Carbohydrate		
Lipid		
Protein		
Nucleic Acid		
Indicators		
Glucose		
Starch		
Glycogen		
Cellulose		
Phospholipid		

Key Word	Before Instruction	After Instruction
Fatty Acid		
Triglyceride		
Saturated Fat		
Unsaturated Fat		
Amino Acids		
Peptide Bond		
Hemoglobin		
Insulin		
Enzymes		
Catalyst		
Activation Energy		
Substrate		
Active Site		
Enzyme/Substrate Complex		
Product		
Nucleotide		
DNA		
RNA		

0 = You've never heard of it

1 = You've heard of it

2 = You have an idea

3 = You can explain it somewhat

4 = You know exactly what it is

Review Sheet Completed By: _____

Quiz: _____

Test: _____

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Learning Objectives

Directions: Each objective must be included in your review sheet. (Hint: Use the vocabulary that applies to each)

Date	Learning Objectives: (NCES: Bio.1.2.1, 4.1.1 & 4.1.3)	I'm Stuck	I'm Getting It	I Got It
	1) I can draw the pH scale and give examples of substances that are acidic, basic, and neutral.			
	2) I can define organic and inorganic in terms of biochemistry and give examples of each.			
	3) I can list the four biological molecule groups and give examples of each. (Including monomers & polymers)			
	4) I can draw the structure of carbohydrates, proteins, lipids, and nucleic acids.			
	5) I can explain and identify the function of the four (4) biological molecules.			
	6) I can identify the 4 different indicators and which organic macromolecules they indicate for.			
	7) I can diagram and label the structures of an enzyme and explains its function (include activation energy).			
	8) I can explain denaturing and identify the factors that affect enzymes.			