

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	Key Word	Before Instruction	After Instruction
pH Scale			Fatty Acid		
Acidic			Triglyceride		
Basic			Saturated Fat		
Buffer			Unsaturated Fat		
Inorganic Molecule			Amino Acids		
Organic Molecule			Peptide Bond		
Monomer			Hemoglobin		
Polymer			Insulin		
Carbohydrate			Enzymes		
Lipid			Catalyst		
Protein			Denature		
Nucleic Acid			Activation Energy		
Indicators			Substrate/Reactant		
Glucose			Active Site		
Starch			Enzyme/Substrate Complex		
Glycogen			Product		
Cellulose			Nucleotide		
Phospholipid			DNA		

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

Study Guide Completed By: _____

Quiz: _____

Test: _____

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Learning Objectives

Directions: each objective must be included in your study guide (Hint: Use the vocabulary that applies to each)

- *You will evaluate your understanding the day before the best*

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 describe the pH scale and give examples of substances that are acidic and basic.			
	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 describe and identify (visually) 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 an unknown substance and which biological molecule group it belong to using indicators.			
	7) I can diagram and label the structures of an enzyme and explains its function.			
	8) I can explain what it means for enzymes to function best at optimum levels.			

Study Guide Completed By: _____

Quiz: _____

Test: _____