Study Guide: Unit 1 - Macromolecules

[Notebook pages _____ - ___]

★ Study Strategies ★

- **Write 3 times:** Write the answer 3 times. This is helpful with memorizing information.
- **Draw and label:** draw a diagram of the process (labeling the parts) and explain how it all works. This is helpful with learning patterns in the cycles or repeating processes. Combining this with "write 3 times" can help you memorize the pattern.
- **Explain like I'm 5:** Write the answer to the question like you are explaining it to a 5 year old. Include all the important information but in simple language a kid would understand.
- **Venn Diagram:** Create a venn diagram to compare and contrast the 2 things. Have 5 points for each of the sides (differences) and 3 points for the middle (similarities).
- Flashcards: Create flashcards with the word/question on one side and the definition/answer on the other side. Use your flashcards. If you get the flashcard right, put a check in the corner of the card and put an "x" in the corner if you get it wrong. Repeat the cards until you get all of them right 3 times.
- **Test questions:** Write questions that might be similar to a question you will see on the test. Level 1 questions can be multiple choice and level 2 questions should be short answers. Be sure to include the correct answer!

<u> 1 opics & Main Ideas:</u>	vocab.	
★ Proteins	1. Monomer	9. Enzyme
★ Lipids	2. Dehydration Synthesis	10. Activation energy
•	3. Hydrolysis	11. Active Site
★ Carbohydrates	4. Carbohydrates	12. Substrate
★ Nucleic Acids	5. Macromolecules	13. Reactant
★ Enzymes	6. Lipids	14. Product
★ Denaturing	7. Proteins	15. Catalyze
★ Digestive System	8. Nucleic Acids	16. Denature

Vocah:

Questions:

- 1. How are macromolecules made and broken down?
- 2. List the 4 categories of macromolecules, their polymers, their monomers, their function, and where they are digested.

17. Inhibitors

- 3. Describe the function of amylase, pepsin, lipase, and protease.
- 4. What are the chemical and physical differences between saturated and unsaturated fat?
- 5. Why are your liver, pancreas, and gallbladder important to digestion?
- 6. Compare and contrast mechanical and chemical digestion.
- 7. Describe absorption.

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★ Urinary System

- 8. Label the digestive system.
- 9. Label the urinary system.
- 10. Compare and contrast the function of the digestive and urinary systems.
- 11. Describe the process that starchy foods go through to be digested.
- 12. Describe the process that protein rich foods go through to be digested.
- 13. Describe the process that fatty foods go through to be digested.
- 14. Label the diagram of an enzyme and substrate.
- 15. Describe the different ways an enzyme can become unable (or less able) to do its job.
- 16. What are enzymes made of?
- 17. Compare and contrast matchmaker and gossip enzymes. Why is it important to have both in the human body?



