Name: _____

Date:

7th Grade Life Science Biochemistry Study Guide Mrs. Ruiz 3/8/17

- 1. What is an organic molecule?
- 2. What four major types of macromolecules do all living things contain?
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- 3. What type of macromolecule is glucose?
- 4. The two type of biochemical reactions we have been studying are?
- 5. What is the word and chemical equation for photosynthesis?
- 6. What are the two stages in the process of photosynthesis?
- 7. Define an autotroph and explain how they get their energy?

- 8. Define a heterotroph and explain how they get their energy?
- 9. Why is photosynthesis and sunlight energy so important?
- 10. What part of the plant does most of the energy-capturing process in photosynthesis occur?
- 11. What gives plants their green color? What is the part of the plant cell that absorbs the light energy?
- 12. Know the following about photosynthesis
 - a. Plant cells use the sugar for food.
 - b. Some of the sugar is made into other compounds.
 - c. Some of the sugar is stored in the plant's cells for later use.
- 13. Define respiration.
- 14. What is the difference between aerobic respiration and anaerobic respiration? Make sure you know their advantages and disadvantages too!
 - a. Aerobic respiration -
 - b. Anaerobic respiration -
- 15. List the word and chemical equation for aerobic respiration.
- 16. List the word equation for anaerobic respiration.

17. What is Lactic acid and how is it harmful?