

Name: _____ Class: _____ Date: _____ Due Date: _____

Photosynthesis & Cellular Respiration Worksheet

Vocabulary: Match the phrases on the left with the term that best fits. Use answers only one time.

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|---|------------------|
| ___ 1. Organisms that make their own food | A. Chloroplasts |
| ___ 2. Site of photosynthesis | B. Anaerobic |
| ___ 3. Process occurs in a mitochondrion | C. Aerobic |
| ___ 4. $C_6H_{12}O_6$ | D. Glucose |
| ___ 5. Process does not require oxygen | E. ATP |
| ___ 6. Process requires oxygen | F. Krebs's cycle |
| ___ 7. Adenosine diphosphate | G. Glycolysis |
| ___ 8. Energy storing molecule | H. Energy |
| ___ 9. The anaerobic process of splitting glucose and forming two molecules of pyruvic acid | I. ADP |
| ___ 10. The ability to do work | J. Autotrophs |

Directions: Answer each of the following questions in a clear and concise manner.

11. Compare and discuss how cells store energy and release energy using ATP. Be specific! You may use pictures, diagrams, or whatever else you think best describes how cells store and release energy.

12. Compare lactic acid fermentation and alcoholic fermentation by describing what pyruvic acid is changed in to. Be sure to include what type of organism each one takes place in.

	<u>What is pyruvic acid changed into?</u>	<u>Organism:</u>
Alcoholic Fermentation		
Lactic Acid Fermentation		

13. Decide whether the statement below is TRUE or FALSE. If true, answer only that and move on. If false, correct the sentence so it is true.

Glycolysis only in organisms that have breathed in oxygen.
