

Name: _____

Unit 3 – Bioenergetics

1. What is an autotroph? Provide 2 examples.
2. What is a heterotroph? Provide 2 examples.
3. In cellular respiration, glucose is converted to _____.
4. Where is the energy in an ATP molecule? _____
5. The equation for cellular respiration is the _____ of photosynthesis.
6. Describe the difference between aerobic and anaerobic respiration.
7. List the two types of anaerobic respiration?
 - a. _____
 - b. _____
8. Compare the energy transformations in photosynthesis with those in cellular respiration.
9. Describe the importance of chloroplasts and mitochondria in cellular respiration and photosynthesis.

Terminology Review

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| _____ 1. Fact | A. Generalizes a body of observations; no exceptions have been found. Explains but does not describe. Basis of scientific principles |
| _____ 2. Hypothesis | B. Explanation of observable phenomena based on available data; can change when new data contradicts observed phenomena |
| _____ 3. Inference | C. Something that can be perceived using one of the five senses |
| _____ 4. Law | D. Something that is true |
| _____ 5. Observation | E. A logical conclusion based on known evidence |
| _____ 6. Principle | F. Concept based on scientific laws |
| _____ 7. Theory | G. A proposed, scientifically testable explanation for an observed phenomenon |