

Chapter 4: Photosynthesis/Cell Respiration Study Guide

Name: _____

Date: _____

1. What is the primary source of energy for cells?
ATP- from carbohydrates
2. What are three types of carbon based molecules from which we can get energy? AND next to it write how much ATP can come from that molecule.
Carbohydrates - 36 ATP
Lipids -146 ATP
Protein usually broken down to amino acids (but sometimes 36 ATP)
3. ATP transfers energy from food to the _____.
Cellular process
4. Describe the relationship between bonds and energy.
Bonds break= release energy
Bonds form= store energy
5. Describe ATP, ADP, and AMP in terms of energy and structure (how many phosphates?).
ATP= fully charged (3 phosphates)
ADP= half charged (2 phosphates)
AMP = no charge (1 phosphate)
6. Compare and contrast Chemosynthesis and photosynthesis using a T-chart. Make sure you also include the organisms that carry out each process.
Both are ways to make organic compounds for energy
Chemosynthesis uses energy from chemical compounds to make their food.
- Organisms found near ocean sea vents
Photosynthesis uses energy from the sun to make their food - plants
7. Describe the difference between an autotroph and heterotroph.
Autotroph- makes own food through photosynthesis
Heterotroph- must consume food and break down through cellular respiration
8. How do producers get energy?
They are autotrophs and they get energy from the food they make through photosynthesis.

Energy In A Cell Answer Key

L Cohen



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