# 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

How do producers get energy?
 They are autotrophs and they get energy from the food they make through photosynthesis.

# <u>Cell Respiration And Photosynthesis Study Guide</u> <u>Answers</u>

**SA Adler** 

Cell Respiration And Photosynthesis Study Guide Answers:

Unveiling the Magic of Words: A Overview of "Cell Respiration And Photosynthesis Study Guide Answers"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "Cell Respiration And Photosynthesis Study Guide Answers," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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