

## 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.*

# Photosynthesis And Respiration Concept Review

## Answers

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## **Photosynthesis And Respiration Concept Review Answers:**

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practice to provide educators with the knowledge they need to foster students scientific literacy      *Science Education Research and Practice in Asia-Pacific and Beyond* Jennifer Yeo, Tang Wee Teo, Kok-Sing Tang, 2017-10-16 This book is based on presentations at the International Science Education Conference ISEC 2014 It showcases a selection of the best papers by researchers and science teachers from the Asia Pacific region North America and the United Kingdom Centered on the theme of Pushing the boundaries Investing in our future they pursue new ways of helping learners appreciate the diversity and changes in science that result from a globalised world facing complex and diverse environmental and technological issues The chapters touch on various themes in science education that explore and investigate issues of scientific literacy societal challenges and affect and teacher professional development Its comprehensive themes make it a valuable textbook for graduate students of master s and Ph D programs It also appeals to pre service and in service teachers as a resource on innovative pedagogical practices and creative methods of professional development With a selection that emphasises the research practice nexus in education research it serves as an introductory handbook for teachers to connect with the current issues facing science education      **Teach Like a Human** David J. Mulder, 2025-09-18 Are the machines taking over Artificial intelligence suddenly seems to be everywhere including in the world of education With new AI powered tools popping up every day it s no wonder that educators might feel overwhelmed How can we navigate the strange new world of AI without losing our humanity or our sense of humor Blending thoughtful theology practical wisdom and a deep love for teaching this book invites educators to reflect on big questions What does it mean to be a real human in an age of artificial intelligence What tools should we adopt and which ones should we avoid and how can we decide How do we stay grounded in the gospel story while adapting to emerging technologies Rather than offering easy answers or alarmist warnings let s consider an approach that is curious and courageous developing a hopeful vision for education that forms both minds and hearts Standing on the truth of Scripture and keeping a finger on the tech pulse this book helps Christian educators practice thinking faithfully acting ethically and teaching joyfully even when algorithms are everywhere Teaching Christianly with technology isn t about keeping up with the latest tools and trends it s about being the humans God created us to be

Biological Oceanography Eric L. Mills, 2012-01-01 With a foreword by John Cullen and a new introduction by the author

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