Chapter 4: Photosynthesis/Cell Respiration Study Guide

ame: _	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>Photosynthesis Respiration Internet Exploration Answer</u> <u>Key</u>

Sylvia S. Mader

Photosynthesis Respiration Internet Exploration Answer Key:

Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkBook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as guarantined questions and answers Environmental Modelling John Wainwright, Mark Mulligan, 2013-04-01 Simulation curriculum grids and work programs models are an established method used to investigate processes and solve practical problems in a wide variety of disciplines Central to the concept of this second edition is the idea that environmental systems are complex open systems. The authors present the diversity of approaches to dealing with environmental complexity and then encourage readers to make comparisons between these approaches and between different disciplines Environmental Modelling Finding Simplicity in Complexity 2nd edition is divided into four main sections An overview of methods and approaches to modelling State of the art for modelling environmental processes Tools used and models for management Current and future developments The second edition evolves from the first by providing additional emphasis and material for those students wishing to specialize in environmental modelling This edition Focuses on simplifying complex environmental systems Reviews current software tools and techniques for modelling Gives practical examples from a wide variety of disciplines e g climatology ecology hydrology geomorphology and engineering Has an associated website containing colour images links to WWW resources and chapter support pages including data sets relating to case studies exercises and model animations This book is suitable for final year undergraduates and postgraduates in environmental modelling environmental science civil engineering and biology who will already be familiar with the subject and are moving on to specialize in the field It is also designed to appeal to professionals interested in the environmental sciences including environmental consultants government employees civil engineers geographers ecologists meteorologists and geochemists 273 technical questions and answers for job interview

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Relationship between Forest Ecophysiology and Environment Roberto Tognetti, John D. Marshall, 2021-06-04 Ecophysiological mechanisms underlie plant responses to environmental conditions and the influence these responses have on ecological patterns and processes In this Special Issue with a particular interest in the interactions between climate change environmental disturbance and functional ecology experimental observations are described at a range of spatial scales A modeling framework is used in an effort to relate mechanistic responses to ecosystem functions and services and link forest ecophysiology and environmental indicators This Special Issue collects important advances in studying and monitoring plant environment interactions covering biogeographic gradients from Mediterranean woodlands to boreal forests

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