

# Ap Biology Cellular Energetics Activity 4 Photosynthesis Answers

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### Ap Biology Cellular Energetics Activity

#### **C6H12O6 + O2 6CO2 + 6H2O + energy (ATP)**

Cellular Energetics Activity #2 page 1 AP BIOLOGY NAME \_\_\_\_\_ CELLULAR ENERGETICS ACTIVITY #2 DATE \_\_\_\_\_ HOUR \_\_\_\_\_ CELLULAR RESPIRATION SUMMARY EQUATION  $C_6H_{12}O_6 + O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy (ATP)}$  STEPWISE REDOX REACTION Oxidation: partial or complete loss of electrons Reduction: partial or complete gain of electrons Notes

#### **AP BIOLOGY NAME CELLULAR ENERGETICS ACTIVITY #4 DATE ...**

Cellular Energetics Activity # 4 page 3 OVERVIEW OF PHOTOSYNTHESIS Light Light Dependent (thylakoids)  $H_2O \rightarrow O_2 + NADP^+ \rightarrow NADPH$   $ADP + P \rightarrow ATP$   $CO_2$  Calvin Cycle (stroma) Light Dependent  $CH_2O$  • Take  $e^-$  from  $H_2O$  • Use light energy to boost  $e^-$  to higher energy level • Use some energy to make ATP • Add high energy  $e^-$  to  $NADP^+$

#### **AP Biology - Cellular Energetics Exam**

AP Biology - Cellular Energetics Exam Life: The Science of Biology (Chapters 7-8) For Questions 1-10, compare the light reactions with the Calvin cycle of photosynthesis in plants Use the following key: a light reactions alone b the Calvin cycle alone c both the light reactions and the Calvin cycle

#### **Ap Biology Cellular Energetics Activity 4 Photosynthesis ...**

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#### **AP BIOLOGY NAME CELLULAR ENERGETICS**

Cellular Energetics Activity #2 page 8 ALCOHOL FERMENTATION LACTIC ACID FERMENTATION QUESTIONS 1 Use Figure 91 on page 148 in

your textbook to answer the following questions In general, describe what happens during photosynthesis

### **CELLULAR RESPIRATION LAB - EDHSGreenSea.net**

Cellular Energetics Activity #3 page 1 AP BIOLOGY NAME \_\_\_\_\_ CELLULAR ENERGETICS ACTIVITY #3 DATE \_\_\_\_\_ HOUR \_\_\_\_\_ CELLULAR RESPIRATION LAB OBJECTIVES: After doing this lab you should be able to: 1 calculate the rate of cellular respiration from experimental data, 2 relate gas production to respiration rate, and 3

### **CELLULAR RESPIRATION SUMMARY EQUATION**

Cellular Energetics Activity #2 page 15 2 Write the summary equation for cellular respiration \_\_\_\_\_ 3 Most commonly glucose is represented as the molecule broken down in the respiration equation Does this mean that glucose is the only source of energy (fuel) in cellular respiration? Explain

### **AP Biology - Cellular Energetics Review**

AP Biology - Cellular Energetics Study Guide Life: The Science of Biology (Chapters 7-8) For Questions 1-10, compare the light reactions with the Calvin cycle of photosynthesis in plants

### **CELLULAR RESPIRATION SUMMARY EQUATION**

Cellular Energetics Activity #2 page 1 AP BIOLOGY NAME \_\_\_\_\_ CELLULAR ENERGETICS ACTIVITY #2 DATE \_\_\_\_\_ HOUR \_\_\_\_\_ CELLULAR RESPIRATION SUMMARY EQUATION  $C_6H_{12}O_6 + O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy (ATP)}$  STEPWISE REDOX REACTION Oxidation: partial ...

### **AP Biology 2015 Free-Response Questions - College Board**

Questions 1 and 2 are long free-response questions that require about 22 minutes each to answer and are worth 10 points each Questions 3-8 are short free-response questions that require about 6 minutes each to answer Questions 3-5 are worth 4 points each and questions 6-8 are worth 3 points each Read each question carefully and completely

### **Teach biology while you tackle the test!**

Teach biology while you tackle the test! AP BIOLOGY VOL 3: CELLULAR ENERGETICS 31 How could photosynthetic activity be measured in this experiment? (A) Measure the amount of  $O_2$  gas bubbles formed in the beaker of water at each time point for each type of light

### **Cellular Energetics**

§ AP Biology Lab Manual > Enzyme Lab § Classroom Resources > Visualizing Information TOPIC 33 Environmental Impacts on Enzyme Function Cellular Energetics UNIT3 continued on next page 70 | Course and Exam Description Course Framework V1 AP Biology 00762-113-CED-Biology\_Unit 3.indd 70 ...

### **AP Biology 2013 Scoring Guidelines - College Board**

AP® Biology 2013 Scoring Guidelines The College Board The College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity Founded in 1900, the College Board was created to expand access to higher education Today, the membership association is

### **PHOTOSYNTHESIS SUMMARY EQUATION - Corner Canyon AP ...**

Cellular Energetics Activity #4 page 1 AP BIOLOGY NAME \_\_\_\_\_ CELLULAR ENERGETICS ACTIVITY #4 DATE \_\_\_\_\_ HOUR \_\_\_\_\_ PHOTOSYNTHESIS SUMMARY EQUATION SITE OF PHOTOSYNTHESIS -- PLANTS Cellular Energetics Activity #4 page 2 Cellular Energetics Activity #4 page 10 5 Write the summary equation for photosynthesis

### **ENERGY EXCHANGES - Mrs. Lee's Biology Webpage**

Cellular Energetics Activity #1 page 1 AP BIOLOGY NAME\_\_\_\_\_ CELLULAR ENERGETICS ACTIVITY #1 DATE\_\_\_\_\_ HOUR\_\_\_\_\_ ENERGY EXCHANGES LAWS OF THERMODYNAMICS First Law Second Law Cellular Energetics Activity #1 page 8 13 Shown below is an energy pyramid for an ecosystem Use this pyramid to answer the questions that follow

**AP Biology Unit 3 Syllabus (2019-2020)**

AP Biology Syllabus - Unit 3: Cellular Energetics Essential Questions: 1 How does energy get converted from one form to another? 2 How is the energy stored in food obtained and used by organisms?

**Cellular Respiration Teacher APD Cover**

Cellular Respiration is addressed in the topic outline of the College Board AP Biology Course Description Guide as described below AP Biology Exam Connections The principles of cellular respiration are tested every year on the multiple choice and consistently make up portions the free response section of the exam The concepts of