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# Cellular Respiration Worksheet Answers

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## **Cellular Respiration Worksheet Answers**

7. Explain how the equations for

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photosynthesis and cellular respiration compare. THEY ARE BASICALLY THE SAME FORMULA BUT MIRROR IMAGES OF EACH OTHER. WHAT GOES INTO ONE PROCESS IS WHAT COMES OUT OF THE OTHER. WATER & CARBON DIOXIDE GO INTO PHOTOSYNTHESIS AND WATER AND CARBON DIOXIDE COME OUT OF CELLULAR RESPIRATION. 3 . Total

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ATP =      30-38 ATP

Worksheet

**Photosynthesis &  
Cellular Respiration  
Worksheet**

1. Describe in your own words what cell respiration is and why it is needed. Cellular respiration is the process by which chemical energy stored in glucose is released and captured as ATP. Cellular respiration is needed since ATP is a useable form of energy

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storage. 2. Write the equation for cell respiration in word form and molecular formula.

## **Photosynthesis & Cellular Respiration Worksheet**

Cellular Respiration

B1YvM2 Teacher's

Resources Learning

Objectives: 1. To

examine how glucose

in food can be used to

produce ATP. 2. To

understand what

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molecules are made and where they are made during aerobic respiration. Pre-requisites: NOTE: this activity is meant for 1st year students whose knowledge of chemistry is minimal. Thus,

### **Cellular Respiration Pogil - Commack Schools**

Cellular Respiration.  
Cellular respiration is defined as a catabolic



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process that cells use to make energy. In catabolism, large molecules are broken down to make energy. During cellular ...

### **What is the Purpose & Importance of Cellular Respiration**

...

The products of cellular respiration are energy (or ATP), carbon dioxide, and water. The products of respiration or breathing, come

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**Products of Cellular Respiration | What are the Products ...**

not giving the answers right away and explain we will be investigating these ideas today. •

Refer to objective: Our objective for today is to construct a model of the chemical compounds making up the reactants and products of

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photosynthesis and  
cellular respiration .

Activity 1 (10 minutes)

### **ORISE Lesson Plan: Just Breathe: An Introduction to ...**

synthesis, and a red star by each process (A, B, C, or D) that represents cellular respiration. Write and label equations for cellular respiration and photosynthesis below. Circle the carbon dioxide in each. If you

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need help, see Model 1.

7 + cop 15. \Then

matter from p nd

animals decay (rot),

microorganisms

responsible for the

decompo-

### **Answer Key.**

### **Photosynthesis and Respiration**

ration. Formally,

cellular respiration is

defined as any set of

reactions that uses

electrons harvested

from high-energy

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molecules to produce ATP via an electron transport chain. Making Models 9.1 provides some tips for how you can use models like the one shown in Figure 9.2 as references to draw your own models of cellular respiration.

### **Cell Structure and Function 9 Cellular Respiration and ...**

Cellular respiration takes a glucose

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molecule and combines it with oxygen; the result is energy in the form of ATP, along with carbon dioxide and water as waste products.

### **Similarities Between Photosynthesis And Cellular Respiration**

Paul Andersen details the processes of photosynthesis and respiration in this video on free energy capture and storage.

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Autotrophs use the light reactions and the Calvin cycle to convert energy from the Sun into sugars. Autotrophs and heterotrophs use cellular respiration to convert this sugar into ATP.

### **013 - Photosynthesis and Respiration — bozemanscience**

$O_2$  is consumed during cellular respiration.

This causes the concentration of  $O_2$  to

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decrease as glucose is oxidized for energy. 3.

Yes, cellular respiration occurred in leaves, since  $O_2$  decreased when leaves were in the dark and photosynthesis was not possible.

### **Experiment 31C** **Photosynthesis and Respiration**

2 move to the next stage of cellular respiration. ATP NADH  
CO<sub>2</sub> CO<sub>2</sub> FAD GTP GDP



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## Respiration

CoA CoA-SH CoA-SH  
CoA-SH NAD<sup>+</sup> NADH

NAD<sup>+</sup> CO<sub>2</sub> NADH

FADH<sub>2</sub> NAD NADH

NAD<sup>+</sup> ADP + Pi Fill in  
the molecules created  
or released during the  
Krebs cycle. Fill in the  
blanks of the  
summaries.

### **The Krebs Cycle - Lake Washington Institute of Technology**

12. Explain the process  
of cellular respiration

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and why it is important for the cell. Cellular respiration uses oxygen and glucose to create ATP, ATP is necessary for many of the cell function, like the active transport. Respiration occurs in the mitochondria. 13. What is the difference between hypertonic, hypotonic, & isotonic?

## **Cell Review Guide Answers - The Biology Corner**

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ID: 1243162 Language:

English School subject:

Biology Grade/level:

9th to 12th grade Age:

14-18 Main content:

ATP-ADP Cycle Other

contents: Cellular

Energy, Homeostasis,

Mitochondria Add to

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Classroom

**ATP-ADP Cycle**

**Activity worksheet**

*Page 19/26*

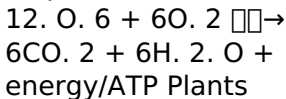
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All cells undergo cellular respiration for the production of energy. Energy is necessary for all

metabolic activity within the cell. The formula for cellular respiration is



Plants carry out photosynthesis for the production of glucose. The glucose then

becomes the energy

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source ...  
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**Organelles in  
Eukaryotic Cells**

digestion and cellular respiration. It is also habitat for many species of plants, animals and microorganisms, and it participates in the cycling of all of the materials used by living things. Water is distributed in the biosphere in a cycle known as water, or

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hydrologic cycle. Some aspects of this cycle are examined in this plate.

### **THE WATER CYCLE**

Enzymes. We've been talking about various biological molecules and that they are needed for reactions in the body (DNA, Protein synthesis, Cellular respiration etc.) and how molecules can change.

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**Enzymes - Anderson  
School District Five**

Paul Andersen explains the process of photosynthesis by which plants and algae can convert carbon dioxide into useable sugar. He begins with a brief description of the chloroplast.

**Photosynthesis —  
bozemanscience**

For most cells, cellular respiration can be divided into two

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## Cellular Respiration

general steps;  
glycolysis and  
oxidative  
phosphorylation.

Glycolysis is the set of chemical reactions that starts the breakdown of glucose. These reactions take place in the cytosol and do not require oxygen ( $O_2$ ) and are therefore anaerobic. If oxygen is available, cells are able to ...

## **Lab 11 Fermentation**

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**Spr10 - Sacramento State**

The main sites of cellular respiration and also involved in storing energy in the form of ATP molecules.

Nucleus: A largest, double membrane-bound organelles, which contains all the cell's genetic information. Controls the activity of the cell, helps in cell division and controls the hereditary characters.

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