

Name _____

Cellular Respiration: Breaking down Energy

Objective: Compare the reactants and products of photosynthesis and cell respiration. Answer in red!



Mitochondria are known as the powerhouses of the cell. They are organelles that act like a digestive system that takes in nutrients, breaks them down, and creates energy for the cell. The process of creating cell energy is known as cellular respiration. Most of the chemical reactions involved in cellular respiration happen in the mitochondria. A mitochondrion is shaped perfectly to maximize its efforts. Remember they have two membranes to increase chemical reactions!

1. What process happens in the mitochondria?

Cellular respiration

2. What is the purpose of the process in #1 (what does it create)? The purpose is to take nutrients and break them down for energy for the cell.

Introduction to Cellular Respiration

Organisms, such as plants and algae, can trap the energy in sunlight through photosynthesis and store it in the chemical bonds of carbohydrate molecules. The principal carbohydrate formed through photosynthesis is glucose. Other types of organisms, such as animals, fungi, protozoa, and a large portion of the bacteria, are unable to perform this process. Therefore, these organisms must rely on the carbohydrates formed in plants to obtain the energy necessary for their cell processes. This means they must eat plants and other animals in order to gain energy.

4. Some organisms perform photosynthesis to produce energy. Other organisms cannot do photosynthesis. What can they do in order to generate energy? They can eat plants or animals to get energy.

5. Animals and other organisms obtain the energy available in carbohydrates through the process of cellular respiration. What is the purpose of cellular respiration? The purpose is to take nutrients and break them down for energy for the cell.

Cellular Respiration Breaking Down Energy Worksheet Answers

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Addison-Wesley Science Insights, 1996 *Science Insights*, 1999 **Cellular Respiration** A. Malcolm Campbell, Christopher J. Paradise, 2016-03-28 What happens to a meal after it is eaten Food consists primarily of lipids proteins and carbohydrates sugars How do cells in the body process food once it is eaten and turned it into a form of energy that other cells can use This book examines some of the classic experimental data that revealed how cells break down food to extract the energy Metabolism of food is regulated so that energy extraction increases when needed and slows down when not needed This type of self regulation is all part of the complex web of enzymes that convert food into energy Adding to this complexity is that all food eventually winds up as two carbon bits that are all processed the same way This book will also reveal why animals breathe oxygen and how that relates to the end of the energy extraction process and oxygen's only role in the body Rather than look at all the details this book takes a wider view and shows how cellular respiration is self regulating

Cellular Respiration The Open The Open Courses Library, 2019-11-07 Cellular Respiration Biology An electrical energy plant converts energy from one form to another form that can be more easily used This type of generating plant starts with underground thermal energy heat and transforms it into electrical energy that will be transported to homes and factories Like a generating plant plants and animals also must take in energy from the environment and convert it into a form that their cells can use Mass and its stored energy enter an organism's body in one form and are converted into another form that can fuel the organism's life functions In the process of photosynthesis plants and other photosynthetic producers take in energy in the form of light solar energy and convert it into chemical energy in the form of glucose which stores this energy in its chemical bonds Then a series of metabolic pathways collectively called cellular respiration extracts the energy from the bonds in glucose and converts it into a form that all living things can use Chapter Outline Energy in Living Systems Glycolysis Oxidation of Pyruvate and the Citric Acid Cycle Oxidative Phosphorylation Metabolism without Oxygen Connections of Carbohydrate Protein and Lipid Metabolic Pathways Regulation of Cellular Respiration The Open Courses Library introduces you to the best Open Source Courses **Cellular Respiration 164 Success Secrets - 164 Most Asked**

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