

Name: _____

Date: _____

Student Exploration: Cell Energy Cycle

****FOR THE BEST LAB EXPERIENCE, PLEASE READ THROUGH ALL INSTRUCTIONS AND FOLLOW THE INSTRUCTIONS GIVEN STEP BY STEP!**

Vocabulary: aerobic respiration, anaerobic respiration, ATP, cellular respiration, chemical energy, chlorophyll, chloroplast, cytoplasm, glucose, glycolysis, mitochondria, photosynthesis, radiant energy

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What does a plant need to survive and grow?
 _____chlorophyll_____

2. What does an animal need to survive and grow?
 _____glucose_____

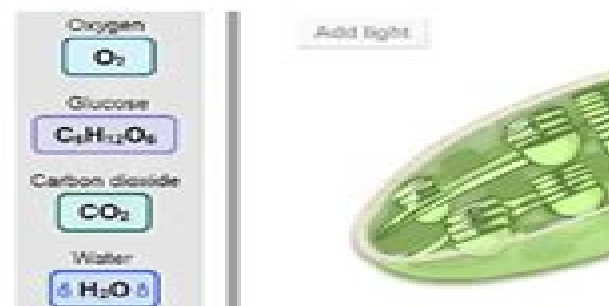
3. How do animals and plants depend on each other? _____
 _____photosynthesis_____

Gizmo Warm-up

The *Cell Energy Cycle* Gizmo™ illustrates two processes that are essential to life: **photosynthesis** and **cellular respiration**.

Although both of these reactions involve a series of complex steps, the basic reactants and products in each process are four relatively simple molecules.

1. What is the chemical formula of oxygen?
 _____o2_____



Gizmo Assessment Answers

Richard Curtis Williams

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Gizmo Assessment Answers:

Bridges to Algebra and Geometry, 2004 *Communicating for Managerial Effectiveness* Phillip G. Clampitt, 2016-10-28

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Communicating for Managerial Effectiveness skillfully integrates theory research and real world case studies into models designed to guide thoughtful responses to complex communication issues The highly anticipated Sixth Edition builds on the strategic principles and related tactics highlighted in previous editions to show readers how to add value to their organizations by communicating more effectively Author Phillip G Clampitt Blair Endowed Chair of Communication at the University of Wisconsin Green Bay addresses common communication problems experienced in organizations including

Communicating about major changes spanning organizational boundaries Selecting the proper communication technologies Transforming data into knowledge Addressing ethical dilemmas Providing useful performance feedback Structuring and using robust decision making practices Cultivating the innovative spirit Building a world class communication system *The Leadership in Action Series: On Selecting, Developing, and Managing Talent* Stephen Rush, 2012-06-27

Even in the midst of economic upheaval organizations need to recognize that selecting developing and managing the right leadership talent will help them not only survive but thrive when the economy eventually rebounds Despite the fact that there are millions in the ranks of the jobless there remains an acute shortage of talent So how can organizations best select develop and manage their talent This collection of sixteen pieces written by the Center for Creative Leadership s highly experienced and knowledgeable faculty members and researchers as well as by prominent practitioners and scholars in the fields of leadership and leadership development explores the important topic of organizational talent challenges from a number of angles Why do companies that want to excel need to be able to engage talented workers as never before How can organizations best identify their high potential employees What do leaders need to understand about the latest generation in the workplace the Millennials Readers will come away with newly found knowledge on these and other questions and newly formed thoughts on how they can successfully meet the talent challenge

A Trilogy Called Tribes! Richard Curtis Williams, 2011-10-06 Book one is focused on the Island Kingdom of Kebra founded by General Jakarta Osiris a Blackamoor who along with his fifty thousand plus army endured a bloody battle and took the massive island group that sits just off the coast of Southeast Africa the taking of the Islands allowed the Romans to defeat the Germans and the great Julius Cesar was so pleased he awarded the Islands to the General as a reward for his service to Rome thus the monarchy was born and Jakarta Osiris began to write his prophecy dubbed the Jakarta Papers that called for African kingdoms to unite and build an empire not unlike that of Rome over the centuries his successors would add chapters of their own by the twentieth century his prophecy became Jakarta Unlimited a plan to unite African nations through corporate development the twenty first century brought on the Blackstreet Prospectus as ordered by Jakarta Osiris IV affectingly referred to as the Chairman and it is his generation that has begun the

implementation of the plan whose concept of mission is to bring selected African nations into world power status And so it begins Housing ,1989 Kiplinger's Personal Finance ,1981-08 The most trustworthy source of information available today on savings and investments taxes money management home ownership and many other personal finance topics

Journal of the American Veterinary Medical Association American Veterinary Medical Association,2010

Changing Times ,1981 *Small Town* ,1984 *Hydrogen & Fuel Cell Letter* ,1998 *Marketing* Eric N.

Berkowitz,Roger A. Kerin,William Rudelius,1989 **Small Business Sourcebook** ,2005 A guide to the information services and sources provided to 100 types of small business by associations consultants educational programs franchisers government agencies reference works statisticians suppliers trade shows and venture capital firms **U.S. News & World**

Report ,1995 **United States News & World Report** ,1995 **American Book Publishing Record** ,1998

Australian National Bibliography ,1996-12 **The British National Bibliography** Arthur James Wells,2003

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