

**Activity 1: Investigating the Role of Stress**

**Background:** Battle fish live in shallow waters off water in Asia. Commonly known as "fighting fish", the males of this species will attack other males that are nearby to defend territory. Students think that a male fish who is defending his territory will have likely experienced a "fight or flight" response, which includes the release of adrenaline into the body of the fish. Adrenaline binds with receptors on certain cells in the animals body. This begins a series of changes that ultimately results in an increase in sugar available in the cell for cellular respiration.

**Lab Design:** The students believe that a stressful event that causes adrenaline to be released will cause more sugar to be available and an increase in cellular respiration. They go on to refine the focus of their lab and want to investigate if the amount of stress battle fish experience is different when the introduction(s) of a battle fish (a picture of either battle fish and (a) fish of other species). To complete the experiment, they obtained 20 gallon fish tanks and put a test probe inside in the middle. It can be safely assumed that all tanks were placed in half of the school's tanks the same. The male battle fish will be housed in one half of the tank. The other half of the tank will house the things that may impact the respiration rate of the battle. In total, there will be four tanks in their experiment. They are summarized in Figure A.1, shown below.

Figure A.1: Overview of Lab Design of Test Groups.

Test Group Name	in the 1st half of the tank	in the 2nd half of the tank
Control Group	male battle	no items
Experimental group A	male battle	male battle
Experimental group B	male battle	picture of a male battle
Experimental group C	male battle	goldfish

**Context of Learning:** During recent instruction prior to designing the lab, students found a number of equations, but they forgot which one is the correct one for cellular respiration.

1. Which of the following equal and best represents the overall process of cellular respiration?

- A.  $C_6H_{12}O_6 + O_2 \rightarrow H_2O + CO_2$
- B.  $C_6H_{12}O_6 + O_2 \rightarrow CO_2 + H_2O$
- C.  $H_2O + O_2 \rightarrow ATP + CO_2 + H_2$
- D.  $H_2O + O_2 \rightarrow C_6H_{12}O_6 + O_2$

The students decide to measure dissolved oxygen in the tank water as a way to quantify cellular respiration. They will take their measures every 5 minutes after the male battle is exposed to the conditions outlined in Figure A.1. We assume the students change the tank water after each trial and make sure the battle has adequate time to "rest" after potentially experiencing stress.

2. How will the amount of dissolved oxygen change as cellular respiration occurs?

The amount of dissolved oxygen should decrease as cellular respiration occurs.

3. Consider the equation for cellular respiration. What is another gas that could have been measured in this lab? How would you expect the amount of this gas change as cellular respiration occurs?

Carbon dioxide could have also been measured. The amount of carbon dioxide would increase as cellular respiration occurs.

# Lab 5 Cellular Respiration Answer Key

**Kim Magloire**



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*Cracking the AP Biology Exam* Princeton Review, Kim Magloire, 2009 Provides techniques for achieving high scores on the AP biology exam and includes two full length practice tests

*Kaplan AP Biology 2016* Linda Brooke Stabler, Mark Metz, Allison Wilkes, 2015-08-04 The Advanced Placement exam preparation guide that delivers 75 years of proven Kaplan experience and features exclusive strategies practice and review to help students ace the NEW AP Biology exam Students spend the school year preparing for the AP Biology exam Now it s time to reap the rewards money saving college credit advanced placement or an admissions edge However achieving a top score on the AP Biology exam requires more than knowing the material students need to get comfortable with the test format itself prepare for pitfalls and arm themselves with foolproof strategies That s where the Kaplan plan has the clear advantage Kaplan s AP Biology 2016 has been updated for the NEW exam and contains many essential and unique features to improve test scores including 2 full length practice tests and a full length diagnostic test to identify target areas for score improvement Detailed answer explanations Tips and strategies for scoring higher from expert AP teachers and students who scored a perfect 5 on the exam End of chapter quizzes Targeted review of the most up to date content and key information organized by Big Idea that is specific to the revised AP Biology exam Kaplan s AP Biology 2016 provides students with everything they need to improve their scores guaranteed Kaplan s Higher Score guarantee provides security that no other test preparation guide on the market can match Kaplan has helped more than three million students to prepare for standardized tests We invest more than 4 5 million annually in research and support for our products We know that our test taking techniques and strategies work and our materials are completely up to date for the NEW AP Biology exam Kaplan s AP Biology 2016 is the must have preparation tool for every student looking to do better on the NEW AP Biology test

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**Evaluation of a Time Saving Team Laboratory Report Assessment** Heidi Elizabeth Krusenklau,1997

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**Biology Laboratory Manual** Sylvia S. Mader,2000-07 Mader includes revised coverage of animal behaviour and ecology as well as a wealth of new focus boxes which highlight topics of high interest and relate biology to everyday life This text is linked to a web site offering extended chapter outlines

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Biology Sylvia S. Mader,2003-07 Aims to help students develop critical and creative reasoning skills in investigating science This manual provides step by step procedures and hands on activities to help students learn the concepts of biology It covers the entire field of general biology

**Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert Kaskel,1994-04-19

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