

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 their experience as "fight or flight" responses, 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 group of 4 in the middle. It can be safely assumed that all tanks are in each half of the divided 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 battle
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 completed 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

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