

**Activity 1: Introduce Stress to the Animals**

**Background:** Betta fish live in shallow bodies of water in Asia. Commonly known as “fighting fish”, the males of this species will attack other males that are specifically of their territory. Students think that a male fish who is challenging his territory will have likely experience a “fight or flight” response, which includes the release of adrenaline into the body of the fish. Adrenaline binds with receptors on cells within the animal’s body. This begins off a series of changes that ultimately results in an increase in sugar available in the cell for cellular respiration.

**Lab Design:** The students infer 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 betta fish experience is different when the introduction(s) of a betta fish (to pictures of other betta fish) and (to) fish of other species. To complete the experiment, they obtain a 50 gallon fish tank and put a test group of fish in the middle. It can be safely assumed that all would use oxygen from half of the 50-gallon tank as the same. The male betta 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 betta. In total, there will be four groups in their experiment. They are summarized in Figure A.1, shown below.

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

Test Group Name	in the 1 <sup>st</sup> half of the tank	in the 2 <sup>nd</sup> half of the tank
Control Group	male betta	no fish
Experimental group A	male betta	male betta
Experimental group B	male betta	picture of a male betta
Experimental group C	male betta	goldfish

**Overview of Experiment:** 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 equations best represents the overall process of cellular respiration?

- A.  $C_6H_{12}O_6 + O_2 \rightarrow H_2O + CO_2$        $H_2O + O_2$   
 B.  $C_6H_{12}O_6 + O_2 \rightarrow H_2O + CO_2 + ATP$   
 C.  $H_2O + C_6H_{12}O_6 \rightarrow$        $ATP + CO_2 + H_2$   
 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 measurements 5 minutes after the male betta 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 betta 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.

# Escience Lab Respiration Answer Key

**Sebastian Brünink**

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