

**Experimental Design/Scientific Investigation POGIL**

**Why?** When scientists set out to do an experiment, they first think about the variables that may affect the outcome of the experiment. A variable is any condition that may cause a change in the system being studied. Some variables are measured quantitatively (temperature, mass or height). Other variables are recorded in a qualitative manner (color, texture or species). The most important factor is that the scientist runs a controlled experiment. In a controlled experiment, only one variable is changed to ensure that the effect of only that one variable can be measured.

**Model 1 – Photosynthesis in an Aquatic Plant**

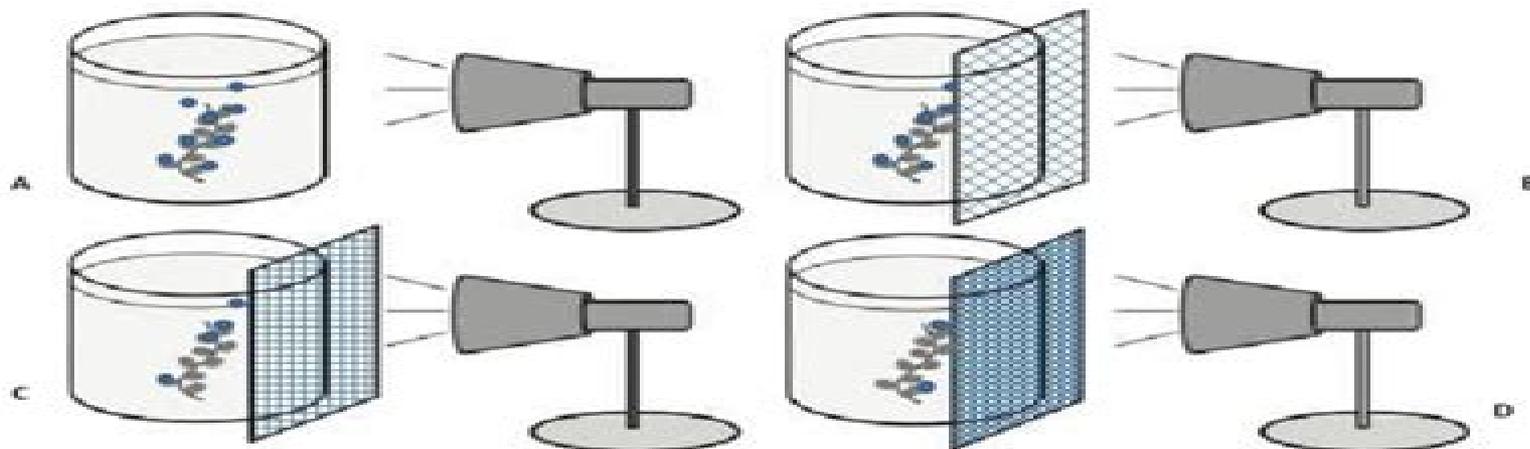
1. The diagram in Model 1 illustrates a clipping of an aquatic plant in water.

- a) What process is occurring in the plant's cells to produce the gas in the bubbles that appear?  
\_\_\_\_\_
- b) What gas is the plant producing? \_\_\_\_\_
- c) What source of energy is the plant using to conduct the process recorded in a)?  
\_\_\_\_\_



- 2. With your group, create a list of environmental factors that may affect the rate of gas production in the aquatic plant in Model 1. These factors could become variables in an experiment. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Model 2 – Aquatic Plant Experiment**



- 3. Examine the four trials shown in Model 2. Identify 3 conditions in the experiment that are the same in each trial.  
a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_
- 4. Describe the one condition that has been varied among the four trials in Model 2. \_\_\_\_\_  
\_\_\_\_\_
- 5. How does the condition described in #4 appear to affect the rate of gas production by the aquatic plant? Provide specific evidence from Model 2 to support your answer. (Hint: observe what the plants are producing.) \_\_\_\_\_  
\_\_\_\_\_

# Pogil Experimental Variables Answers

**Michael Brown**



**Pogil Experimental Variables Answers:**

## Unveiling the Power of Verbal Art: An Psychological Sojourn through **Pogil Experimental Variables Answers**

In some sort of inundated with monitors and the cacophony of immediate connection, the profound power and mental resonance of verbal art often disappear into obscurity, eclipsed by the continuous assault of noise and distractions. Yet, located within the musical pages of **Pogil Experimental Variables Answers**, a charming work of literary beauty that impulses with raw feelings, lies an unique trip waiting to be embarked upon. Published by a virtuoso wordsmith, this enchanting opus instructions viewers on a psychological odyssey, gently revealing the latent possible and profound affect stuck within the complicated web of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is central subjects, dissect their charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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