

**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**

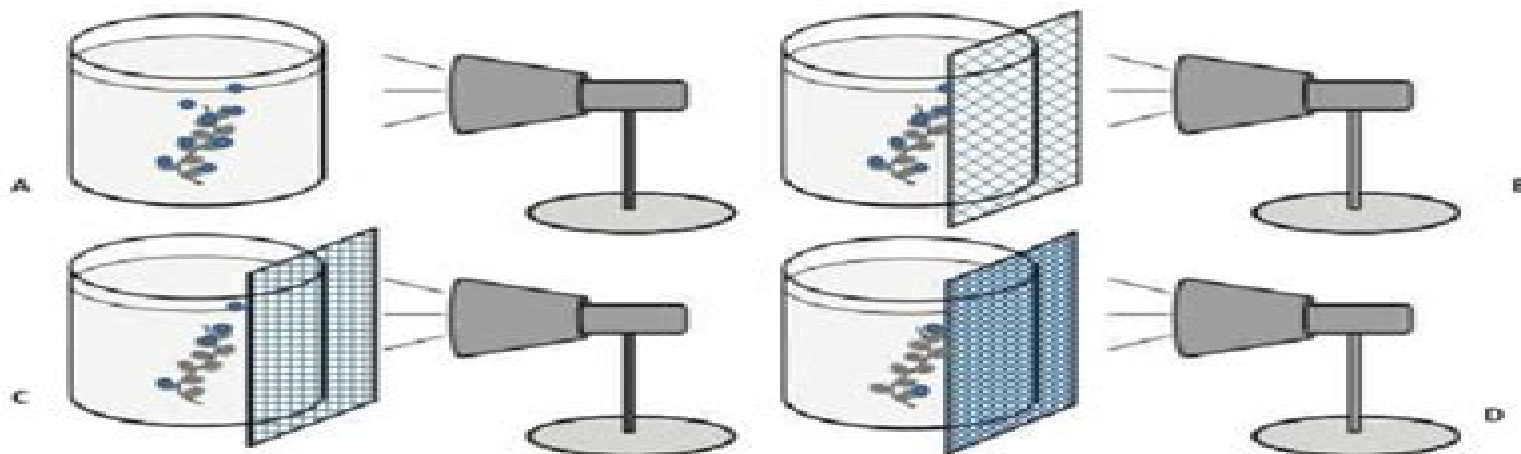
1. The diagram in Model 1 illustrates a clipping of an aquatic plant in water.

- 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

**Juliette Lantz, Renée Cole, The POGIL  
Project**



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