

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?

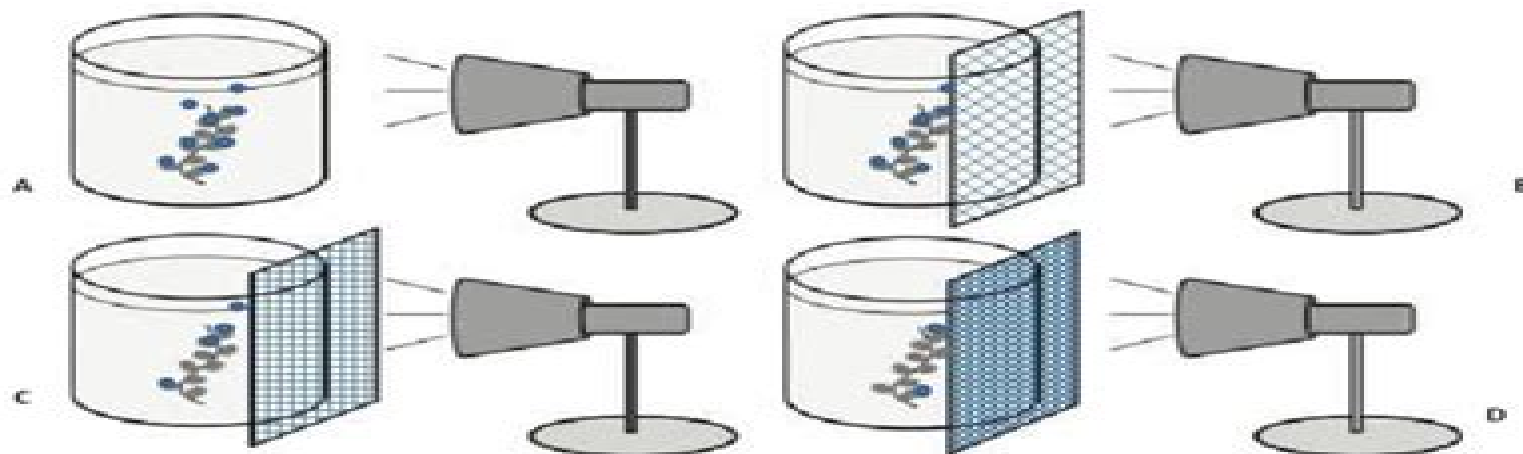
b) What gas is the plant producing? _____

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 Answer Key

CL Gary



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