

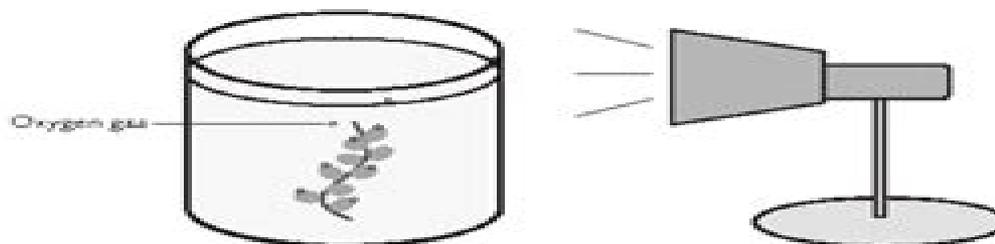
## Experimental Variables

What is measured during a controlled experiment?

### 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, like temperature, mass or height. Other variables are recorded in a qualitative manner, like 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?

**Photosynthesis**

- b. What gas is the plant producing?

**Oxygen gas**

- c. What source of energy is the plant using to conduct the process recorded in part a?

**Light. (Lamp)**

2. Depending on the environment the plant is in, more or less gas may be produced. Suggest a method for measuring the rate of gas production from the aquatic plant in Model 1.

**A dimming/remote controlled light slowly fading every day**

3. 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.

**Clouds, weather, boats in the water,  
temperature possibly**



# Experimental Variables Answer Key Pogil

**KJ Lindholm-Leary**



### **Experimental Variables Answer Key Pogil:**

Learning and Collaboration Technologies Brian K. Smith, Marcela Borge, 2025-07-01 The three volume set LNCS 15806 15808 constitutes the thoroughly refereed proceedings of the 12th International Conference on Learning and Collaboration Technologies LCT 2025 held as part of the 27th International Conference HCI International 2025 which took place in Gothenburg Sweden June 22 17 2025 The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions The papers have been organized in topical sections as follows Part I Designing Learning Experiences Technological Innovation in Education Part II From Human Teachers to AI Educators Intelligent Learning Environments Part III Serious Games and Gamification Immersive Learning Understanding Learning Experiences

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