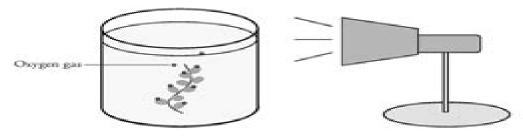
# **Experimental Variables**

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.
  - at. 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)

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

 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 Pogil Answers Biology**

**Chao Zhang** 

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POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about Broadening Participation in STEM Zayika Wilson-Kennedy, Goldie S. Byrd, Eugene Kennedy, Henry T. The POGIL Project Frierson, 2019-02-28 This book reports on high impact educational practices and programs that have been demonstrated to **Concise Handbook of** be effective at broadening the participation of underrepresented groups in the STEM disciplines Experimental Methods for the Behavioral and Biological Sciences Jay E. Gould, 2001-12-20 Although there are many books written on the principles and methods of experimentation few are written in a succinct comprehensive outline format The Concise Handbook of Experimental Methods for the Behavioral and Biological Sciences is based on a popular course

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