

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?

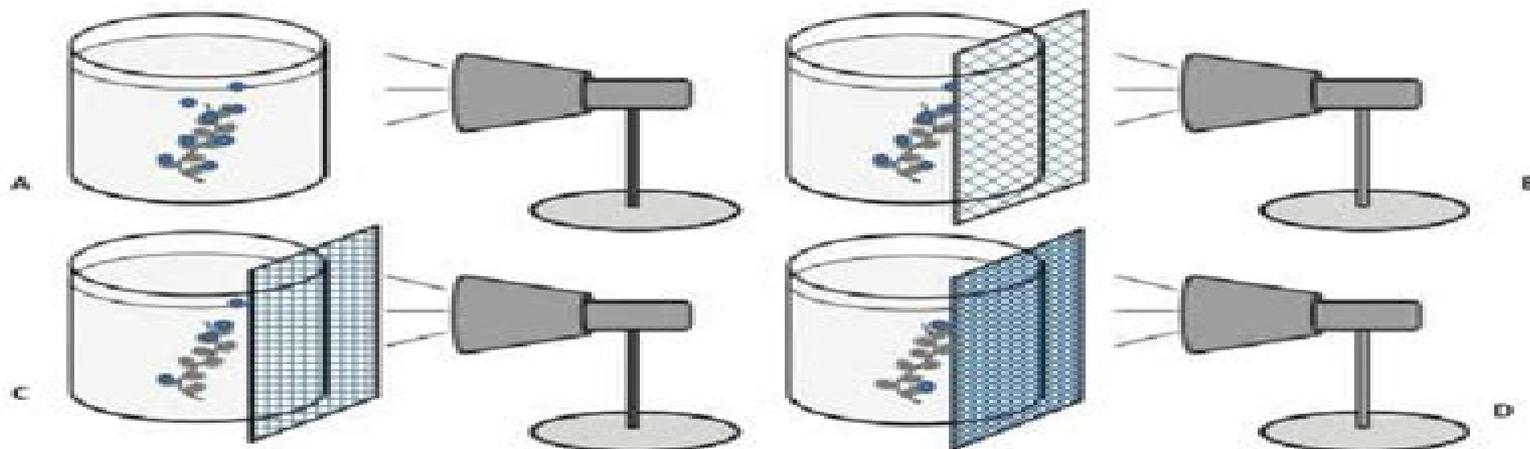
b) What gas is the plant producing? _____

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.) _____

Experimental Variables Pogil Answers

Steve Miller



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Planned and Intrinsic Variables in the Social Psychological Experiment Kurt W. Back, Stephen R. Wilson, Morton D. Bogdonoff, William G. Troyer, DUKE UNIV DURHAM N C., 1966 The study was designed to investigate with the aid of physiological measurements the subject's reaction in a standard experiment The following questions were investigated 1 Do activities incidental to the experimental process such as the order in which the subjects are tested and the conditions of waiting affect the subjects 2 Does the introduction of experimental variables arouse the subject separately from and in addition to the experimental arousal itself 3 Do individual conditions such as personality traits and previous experience make a difference in the importance of intrinsic factors 4 Do these differences in arousal affect the results of the experiment

Concise Handbook of 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 taught by the author for more than two decades to assist advanced undergraduate and

Experimental Design and Statistics Steve Miller, 2005-07-25 For this second edition this best selling textbook has been revised the coverage of two sample tests extended and new sections added introducing one sample tests linear regression and the product moment correlation coefficient

The Theory of the Design of Experiments D.R. Cox, Nancy Reid, 2000-06-06 Why study the theory of experiment design Although it can be useful to know about special designs for specific purposes experience suggests that a particular design can rarely be used directly It needs adaptation to accommodate the circumstances of the experiment Successful designs depend upon adapting general theoretical principles to the spec

Analysis of Variance in Experimental Design Harold R. Lindman, 2012-12-06 As an introductory textbook on the analysis of variance or a reference for the researcher this text stresses applications rather than theory but gives enough theory to enable the reader to apply the methods intelligently rather than mechanically Comprehensive and covering the important techniques in the field including new methods of post hoc testing The relationships between different research designs are emphasized and these relationships are exploited to develop general principles which are generalized to the analyses of a large number of seemingly different designs Primarily for graduate students in any field where statistics are used

On Understanding Variables and Hypotheses in Scientific Research Werrett Wallace Charters, 1992 The hypothesis is the device scientists use to translate questions theories or proposed explanations into a form amenable to empirical research This edition of W W Charter's treatise on clear conceptual definitions and precise operational hypotheses which was originally developed to assist students in educational policy and management courses is designed to bring this brief but classic work to a larger audience Written for novices in research the manual is a discussion of the ways in which variables and hypotheses appear in research the functions they serve and common problems that researchers have with them It

introduces distinctions and rules and procedures for unraveling variables examining relationships between them and analyzing hypotheses The manual contains five chapters Chapter 1 explains that the hypothesis in its elementary form consists of two variables and a specification of the relationship that one expects to hold between them Chapter 2 introduces the essence of variables using three general terms objects properties of objects and values of a property and the two modes of variation kind and degree Chapter 3 ventures into the subject of relationships between variables Chapter 4 delves into the anatomy of the hypothesis and discusses the unit of analysis the null hypothesis and how to locate and dissect hypotheses in published studies Finally the last chapter concerns the two major classes of diseases that prevent hypotheses from growing into proper form those that afflict variables and those that attack specifications of relationships MLF

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