

EXPERIMENTAL DESIGN

Experimental Design Study - Study Guide

Definition:

- A plan for scientific investigation.
- A series of steps to be followed.
- A plan for the investigation, including the independent variable.
- A plan for the investigation, including the dependent variable.
- A plan for the investigation, including the control group.

Why is experimental design important?

It allows scientists to test their hypotheses and to draw conclusions about the relationship between variables. It also allows them to control for confounding variables and to ensure that their results are valid.

What are the components of an experimental design?

- **Independent Variable:** The variable that is manipulated or changed by the researcher.
- **Dependent Variable:** The variable that is measured or observed.
- **Control Group:** A group of subjects that does not receive the treatment, used to compare the results of the experimental group.
- **Experimental Group:** A group of subjects that receives the treatment.
- **Randomization:** The process of randomly assigning subjects to the control or experimental groups.
- **Blinding:** The process of keeping the researchers and/or subjects unaware of the group assignments.

How do you write an experimental design?

1. Identify the independent variable and the dependent variable.

2. Formulate a hypothesis.

3. Design the experiment, including the control group and the experimental group.

4. Conduct the experiment.

5. Analyze the results.

6. Draw conclusions.

Diagram illustrating the Experimental Design:

The diagram shows a plant in a pot. A hand is pouring water from a watering can onto the plant. A label "Independent Variable" points to the watering can. A label "Dependent Variable" points to the plant. A label "Control Group" points to a plant in a pot that is not being watered. A label "Experimental Group" points to the plant being watered. A label "Randomization" points to a coin flip. A label "Blinding" points to a person wearing a mask.

Graph illustrating the Results:

The graph shows the height of the plants in the control group and the experimental group over time. The control group (blue bars) shows a steady increase in height. The experimental group (red bars) shows a much faster increase in height. The y-axis is labeled "Height (cm)" and the x-axis is labeled "Time (days)".

Time (days)	Control Group Height (cm)	Experimental Group Height (cm)
0	0	0
1	1	2
2	2	4
3	3	6
4	4	8
5	5	10
6	6	12
7	7	14
8	8	16
9	9	18
10	10	20

STUDY GUIDE

Laboratory Experimental Design Study Guide

Chao Zhang



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