

EXPERIMENTAL DESIGN

Experimental Design Study - Study Guide

Definition:

- A plan for scientific investigation.
- A series of steps to follow.
- A plan for the "how" and "what" of an experiment.
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Why is experimental design important?

It helps to ensure that the results of an experiment are valid and reliable. It also helps to ensure that the experiment is conducted in a fair and unbiased manner.

What are the steps of experimental design?

1. Identify the problem or question.
2. Formulate a hypothesis.
3. Design the experiment.
4. Conduct the experiment.
5. Analyze the results.
6. Draw conclusions.

What are the components of an experiment?

- **Independent Variable:** The variable that is manipulated or changed by the experimenter.
- **Dependent Variable:** The variable that is measured or observed.
- **Control Group:** A group of subjects that does not receive the treatment.
- **Experimental Group:** A group of subjects that receives the treatment.

What are the types of experimental design?

- **Randomized Controlled Trial:** A design in which subjects are randomly assigned to either the control group or the experimental group.
- **Quasi-Experimental Design:** A design in which subjects are not randomly assigned to either the control group or the experimental group.
- **Observational Study:** A design in which the experimenter does not manipulate any variables.

What are the strengths and weaknesses of experimental design?

Strengths:

- It allows for the establishment of cause-and-effect relationships.
- It is highly controlled and standardized.
- It allows for the replication of the experiment.

Weaknesses:

- It can be expensive and time-consuming.
- It may not be representative of real-world situations.
- It may be subject to bias and confounding factors.

Diagram illustrating the Experimental Design process:

The diagram illustrates the experimental design process. It starts with a 'Question' (e.g., 'Does fertilizer help plants grow?'). This leads to a 'Hypothesis' (e.g., 'Plants given fertilizer will grow taller than plants not given fertilizer'). The hypothesis is then tested through an 'Experimental Design' which includes a 'Control Group' (plants not given fertilizer) and an 'Experimental Group' (plants given fertilizer). Data is collected from both groups, and the results are presented in a 'Bar Graph' showing the 'Dependent Variable' (Plant Height) for each group.

Bar Graph Data:

Group	Plant Height (cm)
Control Group	10
Experimental Group	15

STUDY GUIDE

Laboratory Experimental Design Study Guide

R Barnett



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