

A laboratory **experiment** is a controlled **scientific investigation** conducted in a **laboratory** setting where **researchers** manipulate one or more independent **variables** to observe their effect on dependent **variables**. This type of experiment allows for precise control over **environmental conditions**, ensuring that external **factors** do not influence the **results**. Laboratory experiments are commonly used in fields such as chemistry, biology, physics, and psychology to establish causal relationships and test hypotheses under replicable conditions.

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