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Research Report Assignment

Independent and Dependent Variables:

Independent variables are manipulated or controlled by the researcher and are hypothesized to cause changes in the dependent variable.

Dependent variables are the outcomes or responses that are measured and affected by changes in the independent variable.

Hypotheses and Theories:

Hypotheses are tentative explanations or predictions about the relationship between variables, often tested through research.

Theories are broader explanations that integrate multiple hypotheses and observations, providing frameworks for understanding phenomena.

Types of Variables:

Independent variables are manipulated by the researcher.

Dependent variables are measured and affected by changes in the independent variable.

Control variables are factors held constant to isolate the effects of the independent variable.

Confounding variables are extraneous factors that may influence the dependent variable, affecting the validity of the study.