

# Bi 101—The Scientific Method Bootcamp Version

## Understanding the Nature of Science

Key terms: Fact, Hypothesis, Law, Prediction, Theory

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Key Terms: Control Groups, Controlling for Variables, Experimental Question, Experimental Design, Experimental Groups, Qualitative Data, Quantitative Data, Trials, Variables

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## Scientific Labs—Part I

(1) Scientific Question

(2) Research

(3) Determine Scientific Methods

(4) Identify variables (cause and effect)

(5) Write a hypothesis

(6) Write a null hypothesis

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## Scientific Labs—Part II

(1) Data Tables

(2) Collecting Data

(3) Data Transformation

(4) Analyze Data

(5) Evaluate if Data Supports Hypothesis

(6) Evaluate Experiment and Results

(7) Further Scientific Investigations