

## NAS 2 – UNIT 1 STUDY GUIDE

1. The Scientific Method is an **OBJECTIVE** approach to answering **QUESTIONS** in science.
2. What are the three primary components of the Scientific Method?  
**OBSERVATION** (visual examination of the surroundings)  
**EXPERIMENTATION** (testing hypotheses)  
**ANALYSIS** (examining data)
3. A **hypothesis** is a proposed **EXPLANATION** for a **PHENOMENON** and is typically stated in an **"IF/THEN"** statement.
4. A **theory** is a substantiated explanation, based on **WELL-SUPPORTED HYPOTHESES** from several **INDEPENDENT LINES OF RESEARCH**; theories often change as more **DATA** becomes available.
5. The Scientific Method is limited in that it can only be applied in situations where **CONCRETE DATA, BASED ON OBSERVATIONS OF THE MEASURABLE UNIVERSE** can be collected (**SCIENTIFICALLY TESTABLE** situations). It usually doesn't prove a hypothesis to be **TRUE**, but can either **SUPPORT** or **FALSIFY** a hypothesis..
6. List the seven steps, in order, of the Scientific Method.
  - Step 1: **MAKE AN OBSERVATION**  
What is happening of interest to you and your field?
  - Step 2: **ASK A QUESTION**  
What might be the reason(s) for what you've observed?
  - Step 3: **RESEARCH CURRENT LITERATURE**  
Gather data on what is already known; what related experiments have already been conducted?
  - Step 4: **FORMULATE A HYPOTHESIS**  
Based on your observations and research, predict an explanation of the outcome.
  - Step 5: **TEST THE HYPOTHESIS**  
Set up experiments to determine if the predicted outcome actually occurs.
  - Step 6: **MEASURE, RECORD, AND ANALYZE RESULTS**  
Arrange data into appropriate groups; graphing provides a visual display of results.  
*Does the data support or refute the hypothesis?*

# Nas 410 Study Guide

**Jiyuan Zhang**



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