

Topic: Scientific Method Study Guide

**Summary:** Students will fill out a worksheet with information on what they will be tested on.

Goals & Objectives: Students will be able to explain the scientific process.

Time Length: 20 minutes

**Standards:** CA Investigation and Experimentation 1. Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other four strands, students should develop their own questions and perform investigations.

## **Materials:**

Textbook, class notes, and pencil or pen.

## **Procedures:**

Hand out this worksheet before introducing the scientific method. Students are to fill in this worksheet while you teach about the scientific method. Students then use this worksheet as a central place to study from to prepare for a test or quiz.

## Accommodations:

Students with an IEP may work with a partner filling in the definitions.

## **Evaluation:**

Students are to keep this worksheet. It is not intended to be graded.

	Name: Ro	Row:	
	Date: Pe	riod:	
	Scientific Method Study Guide (Write definitions or explanations)		
1.	What is science?		
2.	How are observations and data related?		
3.	What is a hypothesis?		
4.	What is an independent variable?		
5.	What is a dependent variable?		
6.	What are standardizing variables?		
7.	What are control groups?		
8.	What is a conclusion?		
9.	Why is publishing findings important to the scientific method?		
10	). What is a theory?		
11	. Why is it important to identify errors in an experiment?		
12	2. How do errors affect the validity of experimental data?		
13	3. Using a Venn diagram, compare and		
co	ontrast a hypothesis with a theory.	<b>`</b>	
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