

## **Module 1 (Introduction to Physical Science) Note-Taking Guide**

□ Watch [Strategies for Success: Get Information into Your Brain](#) to learn about best strategies for success in the course.

□ Using what you learn in the readings, **Learn by Doing** and **Did I Get This Activities**, take notes on key concepts by answering the following prompts in your own words.

□ Click [here](#) for ideas on effective note taking techniques.

✧ Click [here](#) to access an optional note-organizing tool.

### **1. Distinguish among the fields of physics, chemistry, and Earth science.**

- Describe common types of questions and investigations in physics, chemistry, and Earth science.
- Describe how knowledge in each field might be useful in the other fields.

### **2. Describe the main methods of science.**

- Distinguish between controlled experiments, observational experiments, field studies, and laboratory studies. Include an example of each.
  - **Essential Vocabulary** (*Note: Define all Essential Vocabulary in your own words, including examples to illustrate the concepts*).
    - Independent variable
    - Dependent variable
    - Control variable
- Describe how different models (physical, conceptual, mathematical, computational) can be used in scientific investigations. Include examples.

### **3. Distinguish among scientific hypotheses, theories, and laws.**

- **Essential Vocabulary**
  - Hypothesis
  - Theory
  - Law
- Describe the principle of falsifiability.
- Give examples of scientific hypotheses, theories and Laws that are covered in the course.

□ Watch [Hypothesis, Theory, and Law](#) video on page 25.

### **4. Discuss how scientific ideas change over time.**

- Using a specific example, explain how scientific ideas change over time.

□ At the bottom of page 25, complete the [Personal Practice Quiz and Module 1 Quiz](#) without using your notes.

□ Explore the example below to learn how to create maps from your notes.

# Physical Science Note Taking Guide Answers

**E Durkheim**



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