NOEO SCIENCE CHEMISTRY 1 LAB MANUAL

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Created by Dr. Randy Pritchard



Noeo Science Packages					
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Biology 1	Biology 2	Physics 3			
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unit 1: THE SCIENTIFIC METHOD

Week 1: How Scientists Learn	
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Day 1 Worksheet

SCHEDULE

	DAY 1	DAY 2	DAY 3	DAY 4
Mad Margaret	pp. 3–7	pp. 8–9	рр. 10–13	pp. 14 - 22
Experiments with the				
Scientific Method				
Experiment Guide				Exploring
				the
				Scientific
				Method

OVERVIEW

This first week is so important for all of Noeo that we made it its own unit: We will be learning about the scientific method, specifically the process of observation and analysis that scientists use to develop information. That sounds complicated, but it's not: it's what we all do, naturally. You are going to learn how to "look" and to "answer," and how to learn from what other scientists have already "looked at and answered." After all, that's what science is all about.

READING QUESTIONS

1. What is the scientific method? (use the glossary on p. 23)

2. What is the first step in the scientific method?

Day 2 Worksheet

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READING QUESTIONS

1. What is the second step in the scientific method?

Day 3 Worksheet

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READING QUESTIONS

1. What is the third step in the scientific method?

2. What is a hypothesis? (use the glossary on p. 23)

Day 4 Worksheet

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EXPERIMENT QUESTIONS: BLOWN AWAY!

1. What is the fourth step in the scientific method?

2. What is the fifth step in the scientific method?

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dit 2: WHAT MATTER IS

Week 2: Concoctions	13
Week 3: Solids and Liquids	21
Week 4: Gases	29
Week 5: Phases of Matter	37

Day 1 Worksheet

SCHEDULE

	DAY 1	DAY 2	DAY 3	DAY 4
What's the Matter in Mr. Whiskers' Room?	pp. 9–15, Water Droppers	рр. 16-19, Gloop		pp. 20–23, Oobleck
Experiment Guide			Oobleck	

OVERVIEW

Last week, you learned about the process of "doing science," specifically the scientific method which organizes all scientific observation. Now, you get to move on to asking (and answering) questions about the huge and wonderful variety of "stuff" in our world. Noeo Chemistry 1 is really about one of the most basic questions: what is that (point at anything here) made of? But first, there's a more fundamental question: what are the differences between liquids, solids, and gases?

READING QUESTIONS

1. What is the big idea in Mr. Whiskers' classroom? (see p. 15)

WEEK 2: CONCOCTIONS

Day 2 Worksheet

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READING QUESTIONS

1. What is the big idea in Mr. Whiskers' classroom?

2. What are the five senses?

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Day 3 Worksheet

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EXPERIMENT QUESTIONS: OOBLECK

- 1. How does the oobleck feel when it is in the bowl?
- 2. How does the oobleck feel when you pick it up?

3. What form of matter is oobleck?

Day 4 Worksheet

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READING QUESTIONS

1. What is the big idea in Mr. Whiskers' classroom?

2. What are the three forms matter can come in?

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