## Textbook How To Focusing on the Scientific Method

Name:	Class P	eriod:
Answers can be found using the orange Physical S	science Textbook	
Using the Contents Area In the Contents area of your textbook, the units are at the beginning of your textbook.	outlined for easy reference. Co	ntents can be foun
1. According to the Contents area, what section wo Method? This se		
2. According to your Contents area, which unit is at wanted to find out more about freezing point in this	oout Heat? unit, which section would you fir	If you nd it in?
3. In what unit would you find information about Ma you find information about electromagnets?		n what page could
Using the Appendices, Glossary, and Index The Appendices, Glossary, and Index can all be for information units.	and at the back of your textbook	after general
4. Which of the Appendices discusses Safety in the can you find this Appendix on?	Science Classroom?	Which page
<ul><li>5. According to the Safety in the Science Classroom under the Cleanup section?</li><li>1.</li><li>2.</li><li>3.</li></ul>	า Appendix, what three things ar	e recommended
6. What page does the Glossary section of your text	book begin?	
<ul> <li>7. Use the Glossary to define the following words the</li> <li>Data:</li> <li>Hypothesis:</li> <li>Scientific Method:</li> </ul>	at relate to the Scientific Method	<b>!</b>
8. On what page does the Index begin?		
9. According to the index, on what page could you fi what page could you find information on photograph	nd information hypothesizing? _ y?	On
Individual Units Individual Units are generally one page with a follow	-up page containing questions fo	or you to answer.
10. Flip to the section about the Scientific Method. W	/hat page does this unit start on	?

11. Using the information in this section, fill in the blank for the step of the Scientific Method.
• Identify and the problem: Scientists often state a problem as a question.
They do this after making observations of a certain situation.
Gather Information: Scientists read and with one another. In
this way, they learn about work that has already been done. They can use this information to
help them design their experiment.
State a: Scientists state clearly a hypothesis, which is a suggested to a problem. Their hypothesis is typically a prediction made as
suggested to a problem. Their hypothesis is typically a prediction made as
an "IfThen" statement.
• an experiment: To test their hypothesis, scientist design an experiment.
<ul> <li>Make Observations and Record: During an experiment, scientists make</li> </ul>
careful observations. The information that they get is their data. Scientists also keep careful
records of the data.
Organize and Analyze Data: Scientists their data. Scientists often use
graphs,, tables, and diagrams to organize data. Then the data can be, or studied.
<ul> <li>a Conclusion: A conclusion is a summary that explains data. It state whether or no</li> </ul>
the data the hypothesis. It answers the question stated in the problem.
12. On the follow-up page of the Scientific Method section, there are five Check questions. Write down and answer each of those questions below:
1. Q. A.
<ul><li>Q. Q.</li><li>A.</li></ul>
3. Q. A. A.
4. Q. A.
5. Q. A.