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| Name | Date | Class |
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| Introduction to Earth Sc | eience • Guided Reading a | nd Study |
| What Is Science | ce? | |
| also presents the process of | | erve the natural world. The section esting hypotheses and explains the |
| Use Target Reading | Skills | |
| | reread the paragraphs that conta u have learned to write a definitio | in the definitions of the Key Terms. n of each Key Term in your own |
| scientific inquiry | | |
| hypothesis | | |
| | | |
| variable | | |
| manipulated variable | | |
| responding variable | | |
| | | |
| controlled experiment | | |
| data | | |
| | | |
| scientific theory | | |
| | | |
| scientific law | | |
| | | |

| Na | Name Date | Class | | |
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| Introduction to Earth Science • Guided Reading and Study | | | | |
| W | What Is Science? (continued) | | | |
| Thi | Thinking Like a Scientist | | | |
| 1. | 1. What is science? | | | |
| | | | | |
| 2. | 2. What are three skills scientists use to learn more about the w | orld? | | |
| 3. | What are five important attitudes that help scientists in their work? | | | |
| 4. | What is observing? | | | |
| | | | | |
| 5. | | g, touch, taste, and | | |
| 6. | What is inferring? | | | |
| | | | | |
| | | | | |
| 7. | 7. Circle the letter of each item that is true about inferences.a. Inferences are based on reasoning from what you a b. Making an inference involves guessing. | lready know. | | |
| | c. An inference is an interpretation of observations. | | | |
| 8. | d. People make inferences all the time.8. Making a forecast of what will happen in the future based or evidence is called | past experience or | | |
| 6 - | | | | |
| | Scientific Inquiry | | | |
| 9. | Write a sentence that explains what scientific inquiry is. | | | |
| | | | | |
| | | | | |
| 10. | 10. Is the following sentence true or false? Scientific inquiry often developing a hypothesis | n begins with | | |

| Name | Date | Class | | | |
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| Introduction to Earth S | cience • Guided Reading an | nd Study | | | |
| a. At what tob. When doec. How can it | each sentence that is a scientific of emperature does water boil? es the sun rise on April 3? my team work better together? s she like science more than he d | • | | | |
| 12. A(n) answer to a scientification | is a possible explanation ic question. | on for a set of observations or | | | |
| 13. Is the following sen | 3. Is the following sentence true or false? Scientists consider a hypothesis to be a fact. | | | | |
| 14. To test a hypothesis | 4. To test a hypothesis, a scientist designs a(n) | | | | |
| 15. The facts, figures, as | 5. The facts, figures, and other evidence gathered through observations are called | | | | |
| | 6. A(n) is a summary of what you have learned from an | | | | |
| experiment. Complete the Nature of In | iquiry diagram by filling in the blar | ıks. | | | |
| Communicate 19. Draw 20. Why is scientific inc | | | | | |
| | | | | | |
| 21. In scientific inquiry | , what is communicating? | | | | |
| Scientific Theories | and Laws | | | | |
| 22. What is a scientific | theory? | | | | |
| <u> </u> | Is the following sentence true or false? Future testing can prove a scientific theory to be incorrect | | | | |
| 24. You can think of a(| n) as a ru | ıle of nature. | | | |
| 25. How is a scientific l | aw unlike a scientific theory? | | | | |