

Content Practice A**Scientific Method****LESSON 1****Understanding Science**

Directions: On the line before each definition, write the letter of the term that matches it correctly. Each term is used only once.

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| _____ 1. the act of watching something and taking note of what occurs | A. hypothesis |
| _____ 2. a possible explanation for an observation that can be tested by scientific investigations | B. inference |
| _____ 3. a statement of what will happen next in a sequence of events | C. observation |
| _____ 4. a logical conclusion based on available information or evidence | D. prediction |
| _____ 5. an explanation of observations or events that is based on knowledge gained from many observations and investigations | E. potential |
| _____ 6. a rule that describes a pattern in nature | F. science |
| _____ 7. the practical use of scientific knowledge, especially for industrial or commercial use | G. scientific law |
| _____ 8. something that is possible or likely | H. scientific theory |
| _____ 9. the investigation and explanation of natural events and of the new information that results from those investigations | I. technology |

Key Concept Builder **LESSON 1****Understanding Science****Key Concept** What is scientific inquiry?

Directions: Complete the chart by writing the letter of the correct statement under each heading. Each statement is used only once.

- A. State your observation and then provide an explanation.
- B. Design an experiment.
- C. Make a model.
- D. Scientists use logical reasoning and inferences during this part of the process.
- E. Data are sorted, classified, graphed, or processed in some way so relationships are obvious.
- F. State a problem.
- G. The information gained from the unsupported hypothesis can be used to revise the hypothesis.
- H. Inform other scientists about what research has occurred.

Ask Questions	
1.	
Hypothesize and Predict	
2.	
Test Hypothesis	
3.	4.
Analyze Results	
5.	
Draw Conclusions	
6.	
Communicate Results	
7.	
Further Scientific Inquiry	
8.	