Skills Worksheet

Directed Reading B

Section: Scientific Methods (pp. 12–19) WHAT ARE SCIENTIFIC METHODS?

1. The first step in using scientific methods is asking questions. Name two steps that follow.

2. Why do scientists vary the order of the steps of scientific methods?

ASK A QUESTION

3. When you observe something out of the ordinary or difficult to explain, what might you do?

MAKE OBSERVATIONS

- **4.** Observations are useful only if they are
 - **a.** important.

- **c.** complicated.
- **b.** accurate. **d.** understood.
- 5. What did students in Minnesota do with their data and observations after they examined the frogs?
- **6.** What is an observation?
- 7. What are some tools that scientists use to make observations?

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		Date
Directed Reading B continued	d	
ORM A HYPOTHESIS		
8. A possible explanation or a	answer to a question is	a(n)
9. What is a hypothesis based	d on?	
10. A hypothesis must be able useful.	to be	in order to be
11. What were three hypothes deformation in frogs?	es that scientists forme	d about what caused
2. A statement of cause and e		_
hypothesis is called a(n)		
	sts statement of cause a	and effect usually stated:
TEST THE HYPOTHESIS 14. What is a controlled exper		
TEST THE HYPOTHESIS		
TEST THE HYPOTHESIS 14. What is a controlled exper	iment?	
TEST THE HYPOTHESIS 14. What is a controlled exper 15. What is a variable?	riment? requires	

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