Name	Class	Date
Skills Worksheet		
Directed Rea	ding B	
•		
Section: Scientific		
WHAT ARE SCIENTIFIC		
1. The first step in using that follow.	g scientific methods is asking	questions. Name two steps
	oothesis and then test the hypothesis	
	•	
2. Why do scientists var	ry the order of the steps of sci	ientific methods?
	xperiment does not match the predict	ions, then
the scientist may forn	n a new hypothesis.	
ASK A QUESTION		
· ·	omething out of the ordinary o	or difficult to explain, what
might you do?		
1. ask questions 2. form a hypothesis		
	riment to answer your question	
MANUE ODCEDVATIONS		_
MAKE OBSERVATIONS		
	are useful only if they are	1' 4 1
a. important. b. accurate.	c. comp d. unde	_
5. What did students in	Minnesota do with their data	and observations after they
examined the frogs?		
	em, they measured them and	
wrote a description abo	out them.	
6. What is an observation	on?	
A sensible object that	t you can measure and record.	
7. What are some tools	that scientists use to make ob	oservations?
a ruler, a microscope		
a thermometer.	, a tolescope,	

Name	Class	Date
Directed Reading B continued		
FORM A HYPOTHESIS		
8. A possible explanation or an hypothesis	nswer to a question is a(n)
9. What is a hypothesis based	on?	
It is based on an educated gues	s of what the answer might be	
10. A hypothesis must be able to useful.	o be <mark>tested</mark>	in order to be
11. What were three hypotheses deformation in frogs?	s that scientists formed ab	oout what caused
1. Maybe there was chemical por2. Maybe parasites in the water3. Maybe ultra violet light cased	caused the deformities	es
12. A statement of cause and ef	fect that can be used to se	et up a test for a
hypothesis is called $a(n) = $	•	
13. In what format is a scientist		effect usually stated?
with an "If - then" statemen	t	
TEST THE HYPOTHESIS		
14. What is a controlled experim	nent?	
An experiment with all the variables k		erature or air pressure.
15. What is a variable?		
a changeable measurement or ca the factor that is changed	apacity in the experiment	
16. Designing an experiment red	quires _ <mark>fixed variable controls</mark>	to the trial test variables
17. What kind of guidelines muse experiment?	st scientists use in designi	ng and conducting an
Ethical guidelines, so not to harm	the specimens	
18. How should scientists care to UV light? Let the specimens go b	· .	rogs in experiments with