Nam	e	Class	Date
Sk	tills Worksheet		
	Directed Read	ling A	
Se	ction: Scientific Mod	dels	
1.	What can scientists build to	test their hypo	otheses?
MO	DELS IN SCIENCE		
		•	ion, or description designed to show ect, system, or concept called?
3. 3	Scientists use models to repr	resent	or systems.
4	A model uses something		to help us understand
	something that is not familia	r.	
5.]	List the three common types	of scientific	models.
•			
	What can be helpful to show works?	things that a	re too small to see or how something
7.]	List two examples of physica	al models.	
•			
8. 2	A mathematical model is ma		
0.4	Compley mathematical mod	ale oon hove :	nany
			nany
10.	Ommung a variable in a com	piex mamem	atical model can cause the model to
-	·		

Name	Class	Date
Directed Reading	A continued	
	odels are based on systems of ideas	or comparisons with
12. How does a cond	ceptual model make use of familian	things?
Match the correct de	escription with the correct term. Wr	ite the letter in the space
13. a model u	used to predict the weather	a. conceptual model
14. the big ba	ang theory, which describes how	b. physical model
the planets and	ts and galaxies were formed	c. mathematical
15. a model o	of a molecule	model
16. A model can hel	p you see things in your mind	
that are very	and very _	·
see.		
USING MODELS T	O BUILD SCIENTIFIC KNOWLED)GE
a. model b. law. c. variab d. theory	le.	oservations is called a
19. What are theorie	es based on?	
20. A theory explain	ns observations you've made and he	elps you
	what will happen in oth	ner tests.

Nam	ClassDate	_
Di	ected Reading A continued	
21.	Explain how scientists use models to test theories.	
		_
22.	What is a summary of many experimental results and observations called?	
23.	a scientific law is formed only after many experimental results and	
	Vhat do laws describe?	
25.	Iow do theories and laws differ?	_
		_
	What law says that the total mass of materials formed is the same as the total mass of the starting materials?	_

After doing the directed reading 1-26:

- 1.Read the Summary Box on the bottom left of page 23.
- 2. Answer questions 1-6 on page 23 on lined paper.