ame Class	Date
Directed Reading B continued	
atch the correct description with the correct term. Write	the letter in the
ovided.	
<b>8.</b> a measure of the size of an object or region	a. mass
in three-dimensional space	<b>b.</b> temperature
9. the ratio of the mass of a substance to the	<b>c.</b> volume
volume of the substance	<b>d.</b> density
10. a measure of how hot or cold something is	D=m/V D=density
11. a measure of the amount of matter in an	m=mass V=volume
object	Dwater= 1 g/mL
atch the correct description with the correct term. Write	the letter in the
ovided.	
neter 12. the basic SI unit of length	<b>a.</b> kilogram
gram 13. the basic SI unit of mass	<b>b.</b> liter
liter 14. a unit used to express liquid volume	<b>c.</b> meter
	<b>d.</b> cubic meter
neter 15. a unit used to express the volume of larger solid objects	
. A cubic meter is equal to 1,000liters	
. What unit of measure is used to express the volume	of smaller objects
mL = milliliter or cubic centimeters = cc's	
How is density calculated?	
Density = mass/volume	
first use a balance scale to measure the mass, then use a ruler to measure the volume,	
then calculate the mass divided by the volume to equal the dens	ity.
Name three units that are used to measure temperate	ıre.
Fahrenheit, Celsius, and Kelvin	
_	

Name		Class	Date
Dire	ected Reading B continued		
MOD	ELS IN SCIENCE		
. a model	_ <b>20.</b> What is a pattern, plashow the structure of called?	an, representation, or	
	something that is no  a. a model  b. a tool c. data d. a test  st the three common type  1. Physical model	t familiar?	niliar to help you understand
_	2. Conceptual model 3. Mathematical model		
ı	st three examples of a phy Model airplanes, dolls, and draw		
	hat type of model tries to mething?  Conceptual model	put many ideas togeth	er to explain or summarize

Name		Class	Date			
Dire	ected Reading B continued					
	n the correct description wi	ith the correct type of mo	del. Write the letter in the			
c. mathematical mode	<b>25.</b> used to predict the w	veather	a. conceptual model			
a. conceptual mode	<b>26.</b> used to explain why be expanding		<ul><li>b. physical model</li><li>c. mathematical model</li></ul>			
b. physical mode	<b>27.</b> used to help understands shuttle blasts off into	-				
	<b>28.</b> What can happen if a mathematical model contains a wrong value for a single variable?					
_	The mathematical model coul if it contains a wrong value to	d make highly inaccurate predic one variable.	ctions			
_						
<b>29.</b> W	That are models often used	to represent?	1			
4	Things that are very small or very Things that cannot be seen. Things that are too complex to thi					
<b>30.</b> G	ive one example of a mode	el that is used to learn ab	out things that cannot be			
_	een.					
	Sound waves cannot be seen, but	a colled spring can represent to	nie sound waves.			
	Thy is a model always limit	ed in its usefulness?				
	A model is not exactly the same as					
_						
USIN	G MODELS FOR SCIENTIF	FIC PROGRESS				
<u>C.</u>		ng is NOT a way that mod to communicate difficul	els are used by scientists?			
		a molecule easier to vis				
		o validate inaccurate da				
	7	ed to summarize new inf	formation.			
d. theor	<b>1 33.</b> A system of ideas tha	-				
	supported by a large <b>a.</b> model.	amount of scientific evice. variable	~ ~			
	<b>b.</b> law.	<b>d.</b> theory.	<b>.</b> .			

Nan	ume Class	Date		
Di	Directed Reading B continued			
34.	I. Why do scientists use models in their search fo	or new information?		
	Models help to visualize many parts and concepts at one of This leads the scientist to new angles to look at old proble Looking at these new angles allows them to design new experience.	ems.		
	Conditions is called a(n)	oly predicts events under certain		
<b>36.</b> What may happen when scientists make new observations that seem to that a theory is wrong?				
<b>7</b> 7	The scientists will revise the theory or make new theories.  Define law.	<u>es.</u>		
<i>31</i> .	Law - a descriptive statement or equation that reliably predicts events under certain conditions.  For example, the law of gravity.			
38.	3. What does a law tell you, and what does a law	not tell you?		
	A law tells you how things work, it tells what happens.  A law does not tell why it happens.			
	What law says that the total mass of materials change is the same as the total mass of the statement of the law of conservation of matter and energy	G		