Name	Class	Date	
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Skills Worksheet

Concept Review

Ch. 2

MATCHIN	IG	
In the spa term or pl		er of the description that best matches the
N .	. control group	a. a logical statement about what will happe in an experiment
	. prediction . physical model	b. a verbal or graphical explanation for how a system works or how it is organized
4		c. in an experiment, that which does not receive the experimental treatment
5	conceptual model	d. a three-dimensional model you can touch
6	value .	e. principles or standards considered to be important
7	. experiment	f. the probability of an unwanted outcome
8	statistics	g. information gathered during an experimen
9	. data	h. procedure designed to test a hypothesisi. collection and classification of data
MULTIPLE	E CHOICE	
Choose th	e best response. Write the	letter of that choice in the space provided.
	When it is not possible to predictions by	conduct an experiment, scientists test their
	a. examining correlationsb. using a control.	c. testing for one variable.d. remaining skeptical.
11.	An essential feature of eva. use a control.b. test a single variable.	ery good experiment is that it should c. graph data. d. Both (a) and (b)
12.	 a. remaining skeptical, or b. drawing conclusions, be results c. observing, hypothesizing cating results 	I includes which of the following steps? rganizing data, and analyzing data being open to new ideas, and communicating ng, predicting, experimenting, and communi- ng, being able to see patterns, observing, and
13.	What is not a description	of a good hymothesis?

a. It makes logical sense.

c. It follows from what you already know about a situation.

b. It is a testable explanation of an observation.

d. It is a guess based on previous experiments.

Name		Class	Date		
Concep	t Review continued				
14	One of the key habits of min	nd of scientists is	which		
	14. One of the key habits of mind of scientists is, which allows scientists to expand the boundaries of what we know.				
¥	a. intellectual honesty	c. replication	we know.		
	b. imagination	d. correlation			
15	 A road map is an example of 	fa			
	a. graphical model.	c. conceptual m			
37	b. mathematical model.	d. physical mode	el.		
16	. Statistics are not used by sci	entists to			
	a. compare data.	c. gather data.			
	b. analyze data.	d. All of the abo	Ve		
	2 2 (2000)		40		
17.	. In a scientific investigation, th	ne size of the sample pop	oulation should be		
	large enough to		*		
	a. reflect the probability of an unwanted outcome.				
	b. give an accurate estimate of the whole population.				
	c. closely resemble the system they represent.				
	d. All of the above				
18.	If you consider what will add	to our understanding of	of the natural		
	18. If you consider what will add to our understanding of the natural world in making an environmental decision, you are examining a(n)				
	value.	retited decision, you are	charming a(II)		
	a. ethical/moral	c. environmental			
	b. aesthetic	d. scientific			
19.	9. What is the first step in an environmental decision-making model?				
	a. Explore the consequences of each option.				
	b. Consider which values apply to the issue.				
	c. Make a decision.				
	d. Gather information.				
20.	When you examine a scientifi	ic value in making an er	vironmental deci-		
	20. When you examine a scientific value in making an environmental decision, you				
	a. consider what is right or w	rong.			
	b. consider what will maintai		¥ 9		
	c. use your understanding of the natural world.				
	d. think about what will pron				
21	1171.: -1C.11 - C.11				
	Which of the following is a point a nature process.	ossible short-term conse	equence of creat-		
	ing a nature preserve?	ati au	>		
	a. decrease in habitat destruc				
	b. an increase in property val	ues near the preserve	7 101 1		
	c. a restriction of recreational serve by state officials	activities on private la	na within the pre-		
	d. all of the above				
	and of the thore				