Name	Class	Date	
Skills Worksheet			
Study Guide			

MATCHING

MATCHING	
	tter of the description that best matches the term
or phrase.	a. a logical statement about what will
1. control group	happen in an experiment
2. prediction	b. a verbal or graphical explanation for how a system works or how it is
3. physical model	organized
4. risk	c. in an experiment, that which does not receive the experimental treatment
5. conceptual model	d. a three-dimensional model you can
6. value	touch
7. experiment	e. principles or standards considered to be important
8. statistics	f. the probability of an unwanted outcome
9. data	g. information gathered during an experiment
	h. procedure designed to test a hypothesis i. collection and classification of data
MULTIPLE CHOICE	
Choose the best response. Write t	he letter of that choice in the space provided.
10. When it is not possible predictions by	to conduct an experiment, scientists test their
a. examining correlationb. using a control.	ons. c. testing for one variable. d. remaining skeptical.
11. An essential feature of a. use a control. b. test a single variable	every good experiment is that it should c. graph data. d. Both (a) and (b)
a. remaining skeptical, b. drawing conclusions results	include which of the following steps? organizing data, and analyzing data s, being open to new ideas, and communicating izing, predicting, experimenting, and
communicating resu d. being curious, imagi predicting	lts ining, being able to see patterns, observing, and
c. It follows from what	

Name _	, Cuido continuad	Class	Date			
Study	y Guide continued			, which		
14. One of the key habits of mind of scientists is allows scientists to expand the boundaries of what we know						
	a. intellectual honesty	and the boo	c. replication	ν.		
	b. imagination		d. correlation			
	15. A road map is an exam	ple of a				
	a. graphical model.		c. conceptual model.			
	b. mathematical model		d. physical model.			
	16. Statistics are not used by a. compare data.	y scientist	s to c. gather data.			
	b. analyze data.		d. All of the above			
	17. In a scientific investigate large enough to a. reflect the probability b. give an accurate estice. closely resemble the d. All of the above	y of an unv	wanted outcome. e whole population.	on should be		
	18. If you consider what w in making an environm value.		ur understanding of the nation, you are examining at			
	a. ethical/moral		c. environmental			
	b. aesthetic		d. scientific			
	19. What is the first step ina. Explore the consequenceb. Consider which valuec. Make a decision.d. Gather information.	ences of ea	ach option.	model?		
	20. When you examine a so	cientific va	lue in making an environ	mental		
	decision, you a. consider what is right b. consider what will n c. use your understand d. think about what will	naintain hu	man health. natural world.			
	21. Which of the following creating a nature preser a. decrease in habitat db. an increase in proper	g is a possible ve? lestruction rty values rational acti	ole short-term consequence			