Name	Class	Date	

Skills Worksheet

Concept Review

MATCHING

In the space provided, write the letter of the description that best matches the term or phrase.

- __ **1.** control group **2.** prediction
 - **3.** physical model
- 4. risk
 - **5.** conceptual model
 - **6.** value
 - _ **7.** experiment
- 8. statistics
- 9. data

- **a.** a logical statement about what will happen in an experiment
- **b.** a verbal or graphical explanation for how a system works or how it is organized
- c. in an experiment, that which does not receive the experimental treatment
- **d.** a three-dimensional model you can touch
- **e.** principles or standards considered to be important
- **f.** the probability of an unwanted outcome
- 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 the letter of that choice in the space provided.

- 10. When it is not possible to conduct an experiment, scientists test their predictions by
 - **a.** examining correlations.
- **c.** testing for one variable.

b. using a control.

- **d.** remaining skeptical.
- 11. An essential feature of every good experiment is that it should
 - **a.** use a control.

- **c.** graph data.
- **b.** test a single variable.
- **d.** Both (a) and (b)
- **12.** The experimental method includes which of the following steps?
 - a. remaining skeptical, organizing data, and analyzing data
 - **b.** drawing conclusions, being open to new ideas, and communicating results
 - **c.** observing, hypothesizing, predicting, experimenting, and communicating results
 - **d.** being curious, imagining, being able to see patterns, observing, and predicting
- **13.** What is not a description of a good hypothesis?
 - **a.** It makes logical sense.
 - **b.** It is a testable explanation of an observation.
 - **c.** It follows from what you already know about a situation.
 - **d.** It is a guess based on previous experiments.

Name		_ Class	Date	
Concept Review	v continued			
allows a. intel	•	the boundari	sts is, which ies of what we know. eplication orrelation	
a. grap	map is an example o hical model. nematical model.	c. co	onceptual model. hysical model.	
a. com	cs are not used by so pare data. yze data.	c. ga	ather data. ll of the above	
large er a. refle b. give c. close	entific investigation, nough to ect the probability of an accurate estimat ely resemble the sys of the above	an unwanted e of the whol	le population.	
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sion, yo a. cons b. cons c. use y		wrong. tain human h of the natura	l world.	i-
ing a na a. decr b. an ir c. a res	ature preserve? ease in habitat destr acrease in property v	ruction values near th	rt-term consequence of creat- ne preserve on private land within the pre	