Name		Class:	Date:	ID: A
Study	Gı	Guide for Test on Chapter 1		
		e Choice the choice that best completes the statement or answers the qu	estion.	
		<ol> <li>The ways in which people change the world around them to called         <ul> <li>a. science.</li> <li>b. technology.</li> <li>c. feedback.</li> <li>d. systems.</li> </ul> </li> <li>What is the goal of technology?</li> </ol>	o meet their needs o	r solve practical problems are
	3.	<ul> <li>a. to produce and deliver cereal</li> <li>b. to understand how the natural world functions</li> <li>c. to study the natural world</li> <li>d. to improve the way people live</li> </ul> 3. Science and technology are		
		<ul> <li>a. the same thing.</li> <li>b. not important.</li> <li>c. dependent on each other.</li> <li>d. completely unrelated.</li> </ul>		
	4.	<ul> <li>4. An endoscope is an example of</li> <li>a. science.</li> <li>b. technology.</li> <li>c. brainstorming.</li> <li>d. prototyping.</li> </ul>		
_	5.	5. One positive effect of pesticides is a. greater food production. b. creating more work for farmers. c. pesticides washing into streams. d. pesticides harming people and animals.		
	6.	<ul> <li>6. What are some reasonable safety precautions for field invea.</li> <li>a. None; there are no hazards in the field.</li> <li>b. Always wear goggles and aprons.</li> <li>c. Be prepared and use common sense.</li> <li>d. Always go into the field alone.</li> </ul>	estigations?	
	7.	<ul> <li>7. What is the first thing you should do if an accident occurs a. Find the emergency equipment.</li> <li>b. Notify your teacher.</li> <li>c. Go to the nearest hospital.</li> <li>d. Start first aid treatment.</li> </ul>	?	
	8.	<ul> <li>8. Using one or more of your senses to gather information is</li> <li>a. observing.</li> <li>b. inferring.</li> <li>c. predicting.</li> <li>d. classifying.</li> </ul>	called	

	9.	Observations that deal with a number or amount are called
		a. manipulated observations.
		b. quantitative observations.
		c. qualitative observations.
		d. operational observations.
	10.	Observations that deal with descriptions that cannot be expressed in numbers are called
		a. manipulated observations.
		b. quantitative observations.
		c. qualitative observations.
		d. operational observations.
	11.	
		a. observing. b. inferring.
		b. inferring. c. predicting.
		d. classifying.
	12.	Trying to explain why a cactus needs little water to survive is an example of
—	12.	a. a prediction.
		b. drawing a conclusion.
		c. scientific inquiry.
		d. classification.
	13.	Making a forecast of what will happen in the future based on past experience or evidence is called
#1		a. observing.
		b. inferring.
		c. predicting.
		d. classifying.
	14.	When scientists put things into categories or group together items that are alike in some way, they are
		a. inferring.
		b. predicting.
		c. classifying.
		d. making models.
	15.	When scientists create a representation of a complex process, they are
		a. inferring.
		b. predicting.
		c. classifying.
		d. making models.
	16.	
		a. good lab preparations.
		b. performing a lab.
		c. being in the filed.
	17.	
		c. operational definition.
		d. responding variable.
	17.	<ul> <li>d. completing a lab.</li> <li>In a scientific experiment, a statement that describes how to measure a particular variable or define a particular term is a(n)</li> <li>a. hypothesis.</li> <li>b. manipulated variable.</li> </ul>
		c. operational definition.
		u. I Copuliuliz vai laulu.

Name: \_

- a. biologist.
- b. engineer.
- c. forest technician.
- d. scientist.

25. To reveal trends in data, the data should be presented in a(n)

- a. hypothesis.
- b. graph.
- c. operational definition.
- d. scientific investigation.

## Completion

Complete each statement.

26. Products that help people meet their needs or solve practical problems are examples of

Name:			
T 4 BOTTO OF		 	

27.	Technology	solve every pro	blem.	
		st as in the lab, safety is also important when doing activities in the		
29.	scientist organize inform	, which is the process of grou	iping together items that are alike in some way, helps a	
30.	Scientists who possess the truthfully.	ne attitude of	always report their observations and results	
31.	Scientists who possess thideas.	ne attitude of open-mindedne	ss are capable of accepting	
32.	Scientificpropose explanations ba	refers to the diversed on the evidence they gath	se ways in which scientists study the natural world and er.	
33.	After interpreting data, a	scientist will draw	about their results.	
34.	In science, a hypothesis	must be		
35.	An experiment in which	only one variable is manipul	ated at a time is called a(n)	

## **Short Answer**

Use the diagram to answer each question.

Chimpanzee Diet in November

Food	% Diet
Fruit	62.0%
Insects	16.0%
Leaves	16.0%
Miscellaneous	6.0%

- 36. Describe how the chimpanzee's diet has been classified.
- 37. Do the data in this table represent quantitative observations or qualitative observations? Explain.

## Essay

- 38. What is the difference between science and technology? How are they related?
- 39. Compare and contrast the skills of inferring and predicting.
- 40. Identify the six major stages of the process of scientific inquiry and explain why the process is not a rigid sequence of steps.