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Assessment



## **Chapter Test**

Finals

# Science and the Environment MATCHING

Match the descriptions on the left with the correct terms on the right. Write your answer on the line provided.

- 1. a science focused on environmental effects of human activities

  2. a science focused on interactions between organisms and the environment

  3. sunlight and forests

  4. introduction of harmful levels of chemicals or wastes into the environment

  5. when the last member of a species dies

  6. sun's energy enters and heat leaves
  - down by natural processes

    8. the number and variety of species in an area

7. harmful material that cannot be broken

9. fossil fuels, metals, salt

10. using resources in such a way that there will be enough for future generations

- a. pollution
- **b.** nonbiodegradable pollutant
- c. biodiversity
- d. extinction
- **e.** environmental science
- **f.** nonrenewable resources
- g. sustainability
- h. closed system
- i. renewable resources
- j. ecology

#### **MULTIPLE CHOICE**

In the space provided, write the letter of the word or phrase that best answers the question or completes the sentence.

- 11. Which of the following situations best describes the use of a renewable resource?
  - a. filling a car with gasoline
- c. mining copper
- **b.** building wooden furniture
- d. burning coal in a power plant
- \_12. Which of the following lists contains the names of developed countries?
  - a. Algeria, Guatemala, India
- c. Brazil, Sudan, Namibia
- b. Ecuador, Zaire, Colombia
- d. France, Canada, New Zealand
- **13.** All of these fields of study contribute to environmental science *except* 
  - **a.** linguistics.

- c. social sciences.
- b. biology and earth science.
- **d.** physics and chemistry.

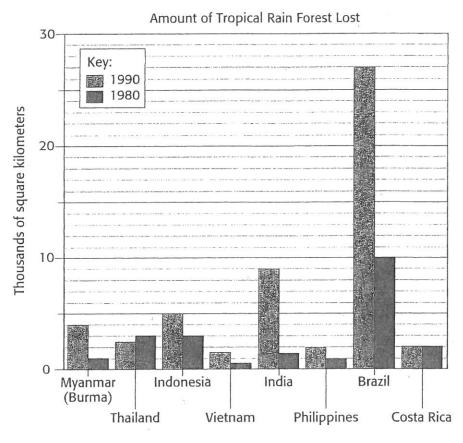
Name	Class	Date
-	r Test continued	
7		. , . , . , . , . , . , . , . , . , . ,
14	<ul><li>a. increased pollution</li><li>b. loss of natural environment</li></ul>	c. increase in quality of living d. overhunting of large mammals
BI	5. In which country is the average c	itizen likely to be using the greatest
	amount of natural resources? <b>a.</b> Peru	c. China
A	<b>b.</b> United States <b>c.</b> In which country is the population	d. Egypt n likely to be increasing most rapidly?
	<ul><li>a. Kenya</li><li>b. Germany</li></ul>	c. Australia d. Norway
1	<ul><li>7. Hardin's "Tragedy of the Common associated with what environmental preventing pollution</li><li>b. preserving biodiversity</li></ul>	ns" essay addresses the conflicts ntal challenge? c. curbing overpopulation d. protecting shared resources
1	8. According to the law of supply a leads to	nd demand, reduced oil production
	<ul><li>a. lower demand for oil.</li><li>b. lower oil prices.</li><li>c. higher prices for oil.</li><li>d. exploration of new fuel source</li></ul>	es.
SHORT	ANSWER	
Write th	e answers to the following question	
<b>19.</b> How	are species lost to extinction through	igh human activities?
-		
<b>20.</b> List	and describe three human activities	s that affect the environment.
l ————————————————————————————————————		•
		,
1		

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Chapter Test continued
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## INTERPRETING GRAPHICS

Study the graph below. Then write the answers to the questions in the spaces provided.



21.	Which	country	lost the	most	tropical	forest in	1990?

22.	Which country	lost about th	he same	amount	of forest in	1990 as	s it did in	1980?

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# **Chapter Test**

# Tools of Environmental Science MATCHING

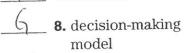
In the space provided, write the letter of the description that best matches the term or phrase.

<u>C</u>	1. risk
-B	2. hypothesis
T	3. prediction

		_
		120
D	4.	experimen

H	_	lation
1 ,	5.	correlation

1	6.	probability
IL.		



7. statistics



- **a.** what scientists use to test a prediction when they cannot use an experiment
- b. more than a guess, a logical explanation
- **c.** probability of an outcome that is unwanted
- d. procedure to test a hypothesis
- e. logical statement about what will happen
- **f.** steps used by scientists to answer questions
- g. systematic process for making decisions
- h. numerical collection and classification of data
- i. the chance that an event will happen

#### **MULTIPLE CHOICE**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- **10.** What essential characteristic does a good experiment have? **a.** A control group is given the experimental treatment.
  - **b.** A single variable is tested.
  - c. A control is used.
  - **d.** both (b) and (c)
  - \_11. Your county is considering buying land to form a nature preserve. On this land, an endangered species of bird is known to breed. Which of the following is a possible negative short-term consequence of the county making this decision?
    - a. The population of the endangered species increases.
    - **b.** Habitat destruction is immediately decreased.
    - c. Environmental controls are made less strict outside the preserve area.
    - **d.** Habitats outside the preserve area become damaged by overdevelopment.



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Chapter Test continued		
12. The three final steps of	the experimental	method in their correct
1		
<ul><li>a. drawing conclusions</li><li>b. drawing conclusions</li></ul>	, repeating experi	and repeating experiments. ments, and communicating
<ul><li>c. observing, hypothesi</li><li>d. repeating experiment</li><li>conclusions.</li></ul>	ts, communicating	g results, and drawing
considering an econom	nic value when yo	or not to build a dam, you are u ask which of the following
a. Will the dam provide	e new leisure acti	vities?
b. How many jobs will	building the dam	resources?
c. Will building the day	m destroy natural	resources.
<b>d.</b> Is it right to build a		
taking when you consicially from setting asice <b>a.</b> exploring conseque <b>b.</b> making a decision	der whether or no de land as a nation nces <b>c.</b> g <b>d.</b> n	one of the above
preserve, will it help p	rotect our water	is included as part of a nature resources?" you are consider-
ing which of the follow	wing types of valu	nvironmental
a. aesthetic		ocial/cultural
<b>b.</b> educational		
16. Which of the followin of Earth's surface ben	g models would y eath the oceans?	ou use to represent the shape
a. graphical	C. (	conceptual
<b>b.</b> mathematical	<b>d.</b> 1	physical
*		
SHORT ANSWER	*	
Read each question or statemen	t and answer it in	the space provided.
17. Explain why mathematical n	nodels are import	ant to scientists. Give two
examples of a mathematical	model.	
· · · · · · · · · · · · · · · · · · ·		
	*	

me	Class	Date	-
Chapter Test continued			
3. Explain why conceptual model ples of a conceptual model.		to scientists. Give two exa	m-
9. Name and describe two addititists and give an example of each	onal types of moach.		
-	4		
Read the following paragraph and provided.			ace
A die is a game piece that A student calculates that rolling a "5" is equal to or the student tosses the die times.	when the die is	).17. To test this theory,	
20. What was the sample size us	ed by the studer	nt?	
<b>21.</b> How does the result of the p probability?			
		*	
22. Based on your answer to que size used by the student? Ex	estion 21, what	can you infer about the sar	nple

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# **Chapter Test**

# The Dynamic Earth MATCHING

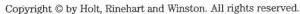
In the space provided, write the letter of the term or phrase that best matches the description.

descrip	uon.	
1	1. rain, snow, sleet, or hail that falls from clouds	a. earthquake
1	2. a single, large, interconnected body of water that	<b>b.</b> tributaries
1	covers 70% of Earth's surface	<b>c.</b> ionosphere
	3. tiny, liquid droplets found in the atmosphere	d. evaporation
	<b>4.</b> the flow of heat from a warmer object to a colder object when the objects are placed in direct physical	e. world ocean
A	contact	f. core
	5. vibration caused by slippage along a fault	g. deep zone
	<b>6.</b> the lower thermosphere	h. conduction
	7. the process in which liquid water is heated by the sun and then rises into the atmosphere as water	i. precipitation
	vapor	j. aerosols
<u>G</u>	<b>8.</b> bottom layer of ocean from base of thermocline to the bottom of the ocean	
F	9. Earth's innermost compositional layer	. *
6	10. smaller streams or rivers that flow into larger ones	

#### **MULTIPLE CHOICE**

Choose the one best response. Write the letter of that choice in the space provided.

- 11. Which of the following includes all of the water on or near Earth's surface?
  - a. geosphere
  - **b.** hydrosphere
  - c. atmosphere
  - d. lithosphere
  - 12. The deepest point on the ocean floor is in the
    - a. Arctic Ocean.
    - b. Indian Ocean.
    - c. Atlantic Ocean.
    - d. Pacific Ocean.



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Chapte	r Test continued		
13	<ul><li>Which of the following is n</li><li>a. mantle</li><li>b. core</li></ul>		rsical layers of Earth? nosphere
<u>B</u> _14	<ul><li>a. volcanic eruptions.</li><li>b. seismic waves.</li></ul>	earthquake occur c. faults d. magn	
<u>B</u> 15	<ul><li>The melted rock that forms</li><li>a. mantle.</li><li>b. magma.</li></ul>	s a volcano is cal c. inner d. conve	core.
16	<ul><li>a. What are wind and water e</li><li>a. mountains</li><li>b. rocks</li></ul>	rosion <i>not</i> likely <b>c.</b> tides <b>d.</b> soil	to affect?
<u>B</u> 17	<ul><li>7. Where is most of the fresh</li><li>a. reservoirs and lakes</li><li>b. icecaps and glaciers</li></ul>	c. ocear	
18	<ul><li>a. Which of the following is E</li><li>a. mesosphere</li><li>b. stratosphere</li></ul>		nosphere
	<ul><li>9. In equal volumes of ocean expected to contain more</li><li>a. pollutants.</li><li>b. salts.</li></ul>	<b>c.</b> air.	water, ocean water may be of the above
	<ul><li>Which of the following is n or within Earth's atmosphe</li><li>a. radiation</li><li>b. condensation</li></ul>		uction

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# **Chapter Test**

## Water

#### MATCHING

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

- 1. a process that includes filtration and chlorination
- 2. area of land that is drained by a river
  - 3. artificial lake created by building a dam
    - 4. underground rock formation that holds water
  - 5. area of land through which water percolates and is stored as groundwater
- 6. removing salt from salt water to make fresh water
  - 7. water pollution that washes into storm sewers from many places, such as parking lots and lawns
  - **8.** a bacterium, virus, or parasitic worm that causes disease
    - **9.** process by which increasing amounts of toxins are stored in the bodies of organisms as toxins move up the food chain

- a. aquifer
- **b.** nonpoint-source pollution
- **c**. artificial eutrophication
- d. pathogen
- **e.** water purification
- f. desalination
- g. reservoir
- h. recharge zone
- i. biomagnification
- j. watershed

### **MULTIPLE CHOICE**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_11. When neighborhood residents noticed a large number of dead fish in a local creek, they traced the problem to a nearby gas station. It turned out that a gasoline tank had developed a leak. This is an example of
  - a. point-source pollution.
  - **b.** nonpoint-source pollution.
  - c. thermal pollution.
  - d. groundwater pollution.

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Name			
Chapte	er Test continued		
A	<ul><li>2. Which of the following</li><li>a. pollutants carried in</li><li>b. sewage sludge dump</li><li>c. oil spills from tanker</li><li>d. ships dumping garba</li></ul>	to the oceans by ed directly into as and offshore	oil rigs
	<ul><li>a. Most large cities get wa</li><li>a. deep wells.</li><li>b. rivers or lakes.</li></ul>	c. j d.	olds and industries from pumps connected to springs. removing salt from seawater.
<u> </u>	<ul><li>14. An inexpensive solutio</li><li>a. desalination.</li><li>b. drilling more wells in</li></ul>	C.	water conservation.
<u>'.b</u>	<ul> <li>a. is the solid matter t</li> <li>b. is the small amount released into rivers</li> <li>c. is not hazardous.</li> <li>d. is inexpensive to di</li> </ul>	of residue left a	after water is treated and
<u>C</u>	<ul> <li>16. Some communities has phosphates because</li> <li>a. phosphates cause of river and lake waters</li> <li>b. phosphates are not c. excessive phosphates to suffocate and did. phosphates kill algorithms.</li> </ul>	ve banned deter chemical reaction r, disrupting economics efficient cleans tes in lakes may e. ae and disrupt r	rgents containing high levels of ons that raise the temperature of osystems.  sers.  y begin a process that causes fish normal food webs in lakes.
	<ul> <li>a. Turtles mistake cleblockage.</li> <li>b. Sea birds are strance. Sea mammals such fishing lines and deal of the above</li> </ul>	ear plastic bags gled by plastic a as seals becor rown.	ne entangled in clear plastic
<u></u>	countries that share  a. The "upstream" co	a river? ountry drills a la ountry builds a :	y to cause conflict between two arge number of new water wells. series of new dams. an increasing amount of water fo

the river empties into the ocean.

d. New industries dump pollutants into the river near the delta where

Chapter Test contin		Date
	ued	
SHORT ANSWER		g v
	the following questions in the s	naces provided
don't we run out	much of our fresh water resour	ces are used every day, why
don't we run out	or water.	
	<del>y</del>	
		e .
	**	200
20. Identify five ways	s in which water can be conserv	red in your home.
	*	
		· · · · · · · · · · · · · · · · · · ·
	a	·
	***	
industry, and agri		
industry, and agri		
	uted groundwater is difficult to	clean.
		clean.
22. Explain why pollu	uted groundwater is difficult to	
22. Explain why pollu		
22. Explain why pollu	uted groundwater is difficult to	
22. Explain why pollu	uted groundwater is difficult to	
22. Explain why pollu	uted groundwater is difficult to	
22. Explain why pollu	uted groundwater is difficult to	
22. Explain why pollu	uted groundwater is difficult to	