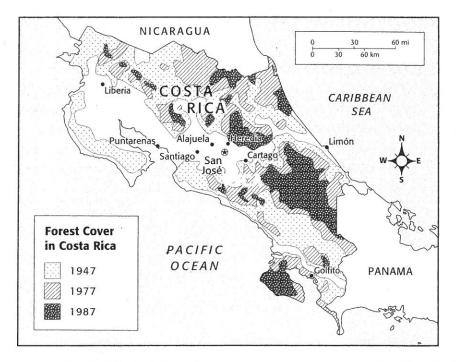
Map Skills



FOREST LOSS



Costa Rica, a country in Central America, was once nearly covered with rain forest. Today, farmers and ranchers have cleared much of the forest, a process called *deforestation*. Deforestation destroys the homes of thousands of species.

Use the map above to answer the questions below.

- **1. Using a Key** In which year did Costa Rica have the most forest cover? The least?
- **2. Analyzing Data** About what fraction of Costa Rica was still covered with forest in 1987?
- **3. Analyzing Data** Was more forest removed between 1947 and 1977 or between 1977 and 1987?
- **4. Inferring Relationships** What is the relationship between the locations of cities and the locations of the remaining forest?
- **5. Inferring Relationships** Why might the decline in deforestation have occurred when it did?

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Assessment)





Section: Understanding Our E	Environmen	t
MATCHING In the space provided write the letter of the	he term that bes	t matches the description.
1. Earth as a "closed system"		a. biodiversity
2. energy from the sun		b. biodegradable
3. mercury, lead, and some plast	ics	c. renewable resourced. nondegradable
4. may be broken down by natur	ral processes	e. "spaceship Earth"
5. the number and variety of spe the area	ecies that live in	
MULTIPLE CHOICE		
Write the letter of the correct answer in the	he space provide	ed.
6. Because environmental science of study, it is said to be a(n)a. ecologicalb. interdisciplinary		
7. Which period in human history below.a. hunter-gathererb. Industrial Revolution	c. post-Inc	to the others listed dustrial Revolution ural revolution
 8. To survive hunter-gatherers ch a. burning the prairies to prevent b. spreading plants to areas be c. Both (a) and (b) d. Neither (a) nor (b) 	ent trees from g	rowing.
 9. During the agricultural revolut a. plants and animals were do b. fossil fuel use increased. c. human populations decreased. d. Both (a) and (c) 	mesticated.	se.
a. overhunting of large mamma b. shift to the use of fossil fuel	als c. improve	ement in quality of life

Name	Class	Date
Assessment		
Quiz		

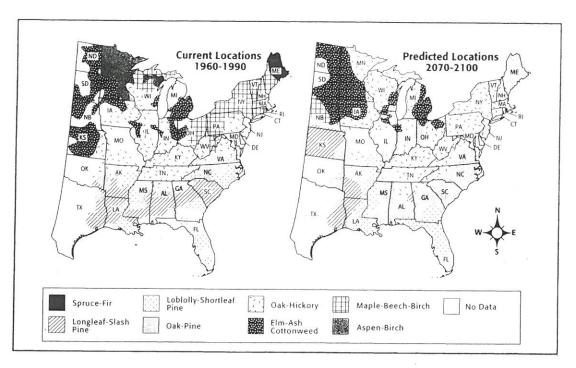
Section: The Environment and	Society	
MATCHING In the space provided, write the letter of the	e term that best n	natches the description
 "If I don't use this resource, some helps determine a product's word may be used to determine how to control pollution diverse individual economies human needs may be met indefined 	rth much to spend	 a. cost = benefit analysis b. sustainability c. "Tragedy of the Commons" d. developed nation e. law of supply and demand
MULTIPLE CHOICE Choose the one best response. Write the let	tter of that choice	in the space provided
 a. shared natural resources b. protected grasslands 7. According to the law of supply supply of oil declined but the declined but th	c. threatened. unpollute and demand, whemand remainedc. Oil usage	d habitats at would occur if the
 a. mark a person's shoe makes b. number of animals a person c. amount of land and ocean ar d. number of trees people cut of 	has killed. rea needed to sup	oport one person.
9. Compared to developing nationa. lower health standards.b. faster-growing populations.	c. greater p	ions have ersonal wealth. populations.
10. Which of the following is a "dev a. the United States b. France	veloping" nation' c. Canada d. Ethiopia	?

Skills Worksheet

Map Skills



BIOME MAP





The Experimental Method is the way scientists develop a hypothesis or theory. To test their hypotheses, scientists develop models or experiments. For example, the map on the right is a model scientists created to study a hypothesis about the effects of climate change on tree populations in the eastern United States. It was created to show the changes in tree species' locations that may occur based on projected temperature increase. The other map shows the current tree species' locations for comparison.

Use the maps above to answer the questions below.

- **1. Using a Key** Currently, what are the predominant tree species in New England? Based on the model, what may be the predominant species in 2100?
- **2. Analyzing Data** What general trend in tree migration does this model show?
- **3. Inferring Relationships** Maple syrup, produced from maple trees, is an important industry in New England. Based on the model, what could be the effect of global warming on that industry?



4. Testing a Hypothesis What sort of experiment could scientists create to test the hypothesis modeled in the map on the right?

Name	Cla	ss	Date	
Assessment				



Section: Scientific N	Methods		
In the space provided, write term or phrase.	the letter of t	he description that best match	es the
1. observation	a. logical st	atement about what will happe	en
2. hypothesis		ion gathered in an experiment explanation for an observation	
3. prediction	2	e used to test a hypothesis	
4. experiment	e. informati	ion gathered by using the sense	es
5. data			
MULTIPLE CHOICE			× ×
		he term or phrase that best constion.	mpletes
6. One important s ideas, called a. intellectual ho b. curiosity.		of mind is the ability to conce.c. imagination.d. skepticism.	ive of ne
7. Which of the followinga. skepticismb. creativityc. intellectual productiond. openness to realize	redictability	a habit of mind of a good scien	tist?
		ientists can test predictions fo sible or unethical to use exper c. control groups d. variables	
9. In an experimen	it, the factor o	f interest is called the	
a. control groupb. experimental		c. hypothesis.d. variable.	
10. The group that of experiment is the		ve the experimental treatment	in an
a. control group		c. data.	
n avnammantal	orollin	n varianie	

Name	Class	Date	

Assessment

Quiz



Section: Statistics and N MATCHING	lodels
In the space provided, write the le term or phrase.	tter of the description that best matches the
1. physical model	a. a flow chart
2. graphical model	b. includes maps and charts
3. mathematical model	c. three-dimensional representation you can touch
4. conceptual model	d. equation representing how a process works
MULTIPLE CHOICE	
Choose the best response. Write th	ne letter of that choice in the space provided.
5. Scientists use statisticsa. graph data.b. analyze data.	c. communicate ideas to each other. d. All of the above
0 0	an accurate estimate for two or more populations. an accurate estimate for a whole population.
a. what components a	a, a conceptual model can help scientists understand system contains. aponents affect each other.
8. Which model is particula. physicalb. graphical	arly useful in scientific cases with many variables? c. conceptual d. mathematical
c. the probability that	merical data. something wanted will happen. something unwanted will happen. nings of interest to a scientist.
10. The classification and bers is called a. statistics. b. probability.	c. distribution. d. mean.

b. probability.

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Name	Class	Data	4
Name	Class	Date	

Assessment



	s-1	5	2
Section MATCHIN	: Making Informed	Decisi	ons
	th value with its definition. the space provided.	Write the	letter corresponding to the correct
2. 3. 4.	social/cultural value educational value environmental value recreational value ethical/moral value	b. humac. whatd. the mtheir	rotection of natural resources In leisure activities It is right or wrong Itaintenance of human communities, It values, and their traditions It is communitied, It is a second communities, It is a se
	letter of the description tha	at best ma	atches the term or phrase.
	 When making an environm long- and short-term conse a. predict risks involved. b. make observations. c. Principles or standards w 	èquences (c. weigh your values.d. collect data for a graph.
	a. values.b. models.	e conside	c. morals. d. data.
8	The decision-making moda. provides a systematic pb. is a conceptual model.	rocess.	c. helps you make decisions.d. All of the above
9	a. Make a decision. Gather consequences.b. Gather information. Consider values. Exploinformation.	er informa	king model is in the correct order? ation. Consider values. Explore alues. Explore consequences. Make quences. Make a decision. Gather decision. Gather information.
10	— ·		ecision-making model should stening to well-informed people on

- all sides of an issue?
 - **a.** evaluating all the information
- c. considering values
- **b.** gathering information
- d. exploring consequences