# **Introducing Environmental Science**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

1	Word Bank				
applied sciences environment environmental science	natural resources organisms				
human-made surrour	is an organism's natural and ndings.				
0	ture that are useful to humans are called				
<b>4.</b> The study of living th	ings and how they interact with their				
<b>5.</b> Fields of study that us problems are	se scientific knowledge to solve practical				
<b>Directions</b> Match the iter Write the letter of each co	ms in Column A with those in Column B. rrect answer on the line.				
Column A			Column B		
<b>6.</b> the study of h	now living things interact with	Α	anthropology		
the environm	ent	В	built environment		
<b>7.</b> the study of h	numan societies	C	culture		
<b>8.</b> what humans	s have made, such as roads and buildings	D	environmental science		
<b>9.</b> the languages	<b>9.</b> the languages, religions, customs, and arts of a people <b>E</b> natural environment				
<b>10.</b> all the living a	and nonliving things found in nature				

## **A Living Planet**

*Directions* Answer each question on the lines. Use complete sentences.

1.	What are three things that people need to survive?
2.	Why do living things need energy?
3.	Where does most of Earth's energy come from?

Period

*Directions* Read each statement. Circle the answer that correctly completes each sentence.

- **4.** A (pesticide, nutrient, pollutant) is a chemical used to control pests.
- **5.** Oxygen will break apart, or (reproduce, dissolve, energize), in water.
- **6.** Living things can (transpire, dissolve, reproduce), or breed and produce offspring.
- **7.** (Wood, Metal, Oxygen) is an element all living things need to survive.
- **8.** Each person needs about (1.9 liters, 1.9 gallons, 1.9 meters) of water a day to stay healthy.
- **9.** The basic unit of life is a (molecule, cell, water), which makes up all living things.
- **10.** Fish use organs called (lungs, cells, gills) to breathe underwater.
- **11.** The ability to do work is (eating, energy, radiation).
- **12.** Chemicals that organisms need to grow are called (nutrients, cells, waves).
- **13.** Heat waves, light waves, and microwaves are all types of (nutrients, pesticides, electromagnetic radiation).
- **14.** A (culture, nutrient, species) is a group of organisms that can breed together.
- **15.** The gas that humans breathe out as waste is (oxygen, carbon dioxide, carbon monoxide).

# A Short History of Life on Earth

Name

**Directions** Choose the term from the Word Bank that completes each statement correctly. Write the answer on the line.

		Word Bank			
	agriculture	habitat	Industrial Revolution		
	Agricultural Revolution	Homo sapiens	landscape		
	cycle	hunter-gatherers	pollution		
1.	The environment where an	animal lives is its	·		
2.	People who survive by hunt	ing animals and collecting for	ood are	·	
3.	Anything added to the envir	ronment that can harm livin	g things is	·	
4.	The scientific name for hun	nans is	·		
5.	Farming, or producing food	l crops, is also called	·		
6.	The characteristics of the la	nd are known as the	·		
7.	The time in history when powas the		se animals		
8.	The time in history when poproducts is the	eople started using machines	s to produce		
9.	A(n)	is a repeating pattern	1.		
Dir	ections Answer each questic	on on the lines. Use complete	e sentences.		
10.	When did the earliest life fo	rms appear on Earth?			
11.	How long have humans bee	en on Earth?			
12.	2. How did hunter-gatherers affect the environment?				
13.	13. How did the Agricultural Revolution change people's diets?				
14.	What are some positive resu	ılts of the Industrial Revolut	ion?		
15.	What is a harmful side effect	t of the Industrial Revolutio	n?		

Name

Date

# **Introducing Environmental Challenges**

**Directions** Unscramble the word or words in parentheses to complete each sentence. Write the answer on the line.

1.	<b>1.</b> Pollution is one type, or problem. (gayercot)		, of environmental	
2.	An example of a(n) trash in a nearby par	n) environmental problem is park. (ollca)		
3.	<b>3.</b> Problems are described as if they affect the whole world. (blaglo)			affect the
4.	The earth has a lot of slowly being lost. (sw	f variety, or rtiiryde)	, b	out this is
5.	•	nstern U.S. coast is an ex pollution prob	•	
Dir	ections Write the let	ter of the answer that be	est completes each se	entence.
6.	Experts predict that to 9 people.	by 2050, the Earth's pop	oulation may grow	
	<b>A</b> thousand	<b>B</b> million	<b>C</b> billion	<b>D</b> trillion
7.	The rise in global tergas in the air.	mperature is due in part	to increased amou	nts of
	<b>A</b> carbon dioxide	<b>B</b> oxygen	<b>C</b> hydrogen	<b>D</b> methane
8.	One person inother country.	uses more resources	than one person in a	any
	<b>A</b> China	<b>B</b> the United States	<b>C</b> India	<b>D</b> Spain
9.	For most of human resources.	history, people have bel	ieved the earth had	
	<b>A</b> limited	<b>B</b> unlimited	<b>C</b> not enough	<b>D</b> sparse
10.	In a(n) socie future generations.	ety, natural resources are	e preserved for	
	<b>A</b> industrial	<b>B</b> hunter-gatherer	<b>C</b> sustainable	<b>D</b> global

## **How Science Works**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

Column A	Column B					
<b>1.</b> a personal belief that can affect an experiment's results	A algae					
•	<b>B</b> analysis					
<b>2.</b> a magazine in which scientists can share their data	<b>C</b> bias					
<b>3.</b> tiny organisms that make their own food	<b>D</b> control group					
<b>4.</b> what is tested in an experiment	<b>E</b> data					
<b>5.</b> a study done in a natural environment	<b>F</b> experimental group					
<b>6.</b> information collected and organized during an experiment	<b>G</b> field study					
<b>7.</b> the process of making sense of an experiment's results	<b>H</b> hypothesis					
8. a group in an experiment that has no variable changed	<b>■</b> Internet					
<b>9.</b> a group in an experiment with one variable changed	J scientific journal					
that is being tested	<b>K</b> variable					
10. an educated guess						
<b>11.</b> worldwide network of computers where scientific information can be shared						
<i>Directions</i> Answer each question on the lines. Use complete sentences.						
<b>12.</b> What is meant by coral bleaching?						
<b>13.</b> What are the steps of the scientific method?						
<b>14.</b> Why do scientists perform their experiments many times?						
<b>15.</b> Why is it vital that scientists publish and share their data?						

Date

Chapter 1, Lesson 6

# **Science and Society**

<b>Directions</b> Answer each question on the	ne lines. Use complete sentences.					
<b>2.</b> List some characteristics of a good	2. List some characteristics of a good scientist.					
<b>3.</b> What does being skeptical mean?						
<b>4.</b> Why are ethics an important part of	of science?					
<b>5.</b> What kinds of issues can environm	ental justice help to solve?					
<b>Directions</b> Write the word or words th	at complete each sentence correctly.					
<b>6.</b> A(n) many scientific observations.	<b>6.</b> A(n) is a well-tested hypothesis that explains many scientific observations.					
<b>7.</b> A(n)	is a statement of a basic law or truth.					
	a person decide between right and wrong.					
<b>9.</b> The effects of different actions are	called					
<b>10.</b> Dealing with environmental proble equally is known as						
<b>Directions</b> Classify each concept as objective or subjective. Write <i>O</i> for objective and <i>S</i> for subjective.	<ul> <li>11. Facts and scientific measurements</li> <li>12. Love of art, music, and literature</li> <li>13. Personal feelings</li> <li>14. Data collected from experiments</li> </ul>					
	<b>15.</b> Opinions					

# **Chapter 1 Vocabulary Review**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A		Column B
1.	materials found in nature that are useful	A	built environment
	to people	В	control group
2.	affecting part of the world	C	environmental justice
3.	dealing with environmental problems in a way that	D	natural resources
	treats everyone equally	E	regional
4.	the group in an experiment where nothing is changed		
5.	the things that humans have made		
6.	a group	F	applied science
<b>7</b> .	all of the living and nonliving things in an area	G	biodiversity
8.	a science magazine	Н	category
<b>9</b> .	the variety of life on Earth	1	ecosystem
10.	provides practical solutions to problems using scientific knowledge	J	scientific journal
11.	a repeating pattern	K	cycle
12.	not influenced by personal feelings or opinions	L	diversity
13.	variety	M	energy
14.	set of principles that help determine	N	morals
	right from wrong	0	objective
15.	the ability to do work		

## Chapter 1 Vocabulary Review, continued

		Column A		(	Column B
	16.	a time when people started i	using machines to	P	agriculture
		produce products			electromagnetic
	17.	electric and magnetic waves			radiation
	18.	farming			habitat
	19.	a person who survives by me	oving from place to		hunter-gatherer
		place, hunting and gathering	g food	T	Industrial Revolution
	20.	the environment where an o	organism lives		
	21.	help a person to decide betw	veen right and wrong	U .	Agricultural Revolution
	22.	only affecting a certain place		V	culture
	23.	the languages, religions, cust	toms, arts, and dress	W	ethics
		of a group of people		X .	Homo sapiens
	24.	the scientific name for mode	ern humans	<b>Y</b>	local
	25.	a basic law or truth		<b>Z</b>	principle
	<b>26.</b> a time when hunter-gatherers began farming and raising animals for food				
		Unscramble the word or worce. Write the answer on the l	rds in parentheses to complete ine.		
<b>27</b> .	The	in	cludes all things that are found in		
	nature.	(ltanrua noevetrinmn)			
28.	<b>28.</b> A problem that is affects the whole world. (lbogla)				
	<b>29.</b> When a person is, they question what they read or hear. (pikalcest)				
30.	<b>80.</b> Living things are harmed when is added to the environment. (lunopolit)				ne
31.	A(n)	is	s the basic unit of life. (lcle)		
<b>32</b> .	2. A scientist conducts a(n) outdoors. (lifed yudts)				

## Chapter 1 Vocabulary Review, continued

34. The chemicals organisms need to grow are called (rittnenus)  35. When an organism becomes		A well-tested hypothesis that explains many scientific observations is called a(n) (rehoyt)				
exists. (nixctet)  36. An organism's	34.	The chemicals organisms need to grow are called (rittnenus)				
human-made things that surround it. (vemnrntieno)  37. During		_	ecomes	, it no	longer	
(olrac higlebanc)  38. A(n)					l and	
experiment. (bavleria)  39. When an organism			, a co	oral will turn white and	l die.	
offspring. (porudecrse)  40. Personal feelings and opinions are				part that is changed in	an	
future generations. (tbsinaeslua iosctye)  42. The rise in world temperatures is also known as		_		, it breeds and 1	produces	
future generations. (tbsinaeslua iosctye)  42. The rise in world temperatures is also known as (llogba granwmi)  Directions Write the letter of the answer that best completes each sente  43. When something, it breaks apart.  A dissolves	<b>40</b> .	Personal feelings and	opinions are		. (tijbuescev)	
				ural resources are prese	erved for	
<ul> <li>43. When something, it breaks apart. <ul> <li>A dissolves</li> <li>B absorbs</li> <li>C combines</li> </ul> </li> <li>44. A(n) is a chemical used to kill or control pests. <ul> <li>A fertilizer</li> <li>B disinfectant</li> <li>C pesticide</li> </ul> </li> <li>45. All living things are called <ul> <li>A life forms</li> <li>B organisms</li> <li>C animals</li> </ul> </li> <li>46. If a person is, their beliefs may affect the results of an expense and careless</li> <li>B opinionated</li> <li>C judgmental</li> <li>47. A is a group of organisms that can breed with each other.</li> </ul>						
A dissolves  B absorbs  C combines  44. A(n) is a chemical used to kill or control pests.  A fertilizer  B disinfectant  C pesticide  45. All living things are called  A life forms  B organisms  C animals  46. If a person is, their beliefs may affect the results of an expertance A careless  B opinionated  C judgmental  47. A is a group of organisms that can breed with each other.	Dire	<b>ctions</b> Write the lette	r of the answer that	best completes each se	ntence.	
<ul> <li>44. A(n) is a chemical used to kill or control pests.</li> <li>A fertilizer</li></ul>	<b>43</b> .	When something	, it breaks apart.			
A fertilizer  B disinfectant  C pesticide  45. All living things are called  A life forms  B organisms  C animals  46. If a person is, their beliefs may affect the results of an expe  A careless  B opinionated  C judgmental  47. A is a group of organisms that can breed with each other.		<b>A</b> dissolves	<b>B</b> absorbs	<b>C</b> combines	<b>D</b> heats	
A fertilizer  B disinfectant  C pesticide  45. All living things are called  A life forms  B organisms  C animals  46. If a person is, their beliefs may affect the results of an expe  A careless  B opinionated  C judgmental  47. A is a group of organisms that can breed with each other.	44.	A(n) is a cher	nical used to kill or	control pests.		
A life forms B organisms C animals  46. If a person is, their beliefs may affect the results of an expe  A careless B opinionated C judgmental  47. A is a group of organisms that can breed with each other.					<b>D</b> herbicide	
<ul> <li>46. If a person is, their beliefs may affect the results of an expe</li> <li>A careless</li> <li>B opinionated</li> <li>C judgmental</li> <li>47. A is a group of organisms that can breed with each other.</li> </ul>	<b>45</b> .	All living things are ca	alled			
A careless B opinionated C judgmental  47. A is a group of organisms that can breed with each other.		<b>A</b> life forms	<b>B</b> organisms	<b>C</b> animals	<b>D</b> species	
A careless B opinionated C judgmental  47. A is a group of organisms that can breed with each other.	46.	If a person is,	their beliefs may af	fect the results of an ex	periment.	
		_	•		<b>D</b> biased	
A species B family C group	<b>47</b> .	A is a group o	of organisms that ca	n breed with each othe	er.	
		A species	<b>B</b> family	<b>C</b> group	<b>D</b> kingdom	

## Chapter 1 Vocabulary Review, continued

<b>48.</b> The is the group in an experiment where one part is changed.				
	<b>A</b> control group	<b>B</b> hypothesis	<b>C</b> variable	<b>D</b> experimental group
<b>49</b> .	The process of makin	g sense of an experime	nt's results is called	·
	<b>A</b> hypothesis	<b>B</b> analysis	<b>c</b> experimentation	<b>D</b> data collection
<b>50</b> .	A is an educa	ted guess.		
	<b>A</b> theory	<b>B</b> principle	<b>C</b> hypothesis	<b>D</b> trial
<b>51</b> .	The study of how living	ng things affect their er	nvironment is called	·
	<b>A</b> natural science	<b>B</b> eco-science	<b>C</b> life science	<b>D</b> environmental science
<b>52</b> .	A is the effect	of an action.		
	<b>A</b> cause	<b>B</b> value	<b>C</b> bias	<b>D</b> consequence
<b>53</b> .	The is used to	test possible answers t	to scientific questions.	
	<b>A</b> experimental data	<b>B</b> scientific method	<b>C</b> variable method	<b>D</b> experimental group
<b>54</b> .	The characteristics of	the land in an area are	part of the	
	<b>A</b> landscape	<b>B</b> ecosystem	<b>C</b> environment	<b>D</b> community
<b>55</b> .	During a scientific exp	periment, is co	llected and recorded.	
	<b>A</b> energy	<b>B</b> data	<b>C</b> analysis	<b>D</b> a hypothesis
<b>56</b> .	The is a world	dwide network of comp	outers.	
	<b>A</b> computer web	<b>B</b> data system	<b>C</b> world net	<b>D</b> Internet
<b>57</b> .	Tiny organisms that r	nake their own food ar	e called	
	<b>A</b> bacteria	<b>B</b> coral	<b>C</b> algae	<b>D</b> insects
<b>58</b> .	are what are i	mportant to a person.		
	<b>A</b> Theories	<b>B</b> Values	<b>C</b> Religions	<b>D</b> Cultures
<b>59</b> .	takes place wl	hen resources are used	faster than they can be	replaced.
	<b>A</b> Environmental jus	tice	<b>C</b> Overconsumption	
	<b>B</b> Coral bleaching		<b>D</b> Environmental sci	ence
<b>60</b> .	Something that is	is made in large o	luantities.	
	<b>A</b> skeptical	<b>B</b> massive	<b>C</b> global	<b>D</b> mass-produced

**Workbook Activity** 

Chapter 2, Lesson 1

#### 8

## The Earth Forms

<b>Directions</b> Read the sentences. Put the steps of how the earth formed in order. Write 1, 2, 3, or 4 on the line in front of each sentence.					
<b>1.</b> Energy heated the new planet to high temperatures.					
<b>2.</b> Earth's molten surface hardened into rock.					
<b>3.</b> The earth began to cool.					
<b>4.</b> Gas and rocky debris circling the sun crashed together.					
<i>Directions</i> Complete the science terms by writing missing letters.  Use the clues to help you.					
<ul><li>5. lighter crust</li><li>6. heavier crust</li></ul>					
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write your answer on the line.

	V		
	extremeophiles toxic	vents volcanic eruptions	
7.	Gases from volcano air around the earth	es and	formed a layer of
8.	Explosions from be	neath the earth's surface are	
9.	Substances that are	poisonous to life are	
10	Tiny organisms call environments on Ea	ledarth.	live in the worst

# Land, Water, and Air

*Directions* Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

		Word	Bank		
	atmosphere	biosphere	hydrosphere	lithosphere	
The	1		is Earth's solid surf	face and interior.	
The	liquid layer wh	nere the earth's wa	ater is found is the	2	•
The	3		is the layer of air th	nat surrounds the	
eart	h. Life can be f	ound in parts of a	all three layers. Toge	ether, these parts	
are	known as Eartl	n's <b>4.</b>			
	plate tectonics	and continental of		of words below.	
	<b>B</b> How they a	re different:			
6.	atmosphere ar	nd hydrosphere			
	<b>A</b> How they a	ıre alike:			
	<b>B</b> How they a	re different:			
		amble the word or e answer on the lin	_	ses to complete each	
7.		ere includes round. (wgdnruot		, which is water	
8.	Water helps (lhmeccai stno		, or chemi	cal changes, take place	e.
9.	Water in the fo	orm of a gas is also	called water		(proav)
10.	Theradiation. (nzo		_ protects Earth fro	om harmful ultraviole	t

Chapter 2, Lesson 3

## **Cycles of Life**

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **1.** Bacteria change nitrogen in the air into (elements, calcium, nitrates).
- **2.** In the (carbon cycle, oxygen cycle, water cycle), water moves from the air to the earth and back to the air.
- **3.** (Evaporation, Condensation, Precipitation) is the process of water changing from a liquid to a gas.
- **4.** (Evaporation, Precipitation, Condensation) occurs when water changes from vapor to a liquid.
- **5.** (Condensation, Precipitation, Transpiration) is water falling to Earth from the atmosphere as rain, hail, sleet, or snow.

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

	Word Bank										
	ammonium	polar ice caps									
<b>6.</b> When you breathe, you take in and give off carbon dioxide.											
<b>7</b> .	The enormous	s masses of ice at the N	North and Sout	h Poles are							
8.	A tiny piece of	f matter, like an atom,	is a(n)		·						
<b>9.</b> Many plants can use nitrogen in the form of											
10.	Plants take in make sugar.	the gas		and use it to							

## **Climate and Weather**

**Directions** Match the items in Column A with those in Column B. Write the letter of the correct answer on the line.

Column A	Column B
<b>1.</b> to turn in a circle	A axis
<b>2.</b> moment-by-moment conditions in the atmosphere	<b>B</b> climate
<b>3.</b> move in a circle around a point	<b>C</b> equator
<b>4.</b> a straight line that an object seems to rotate around	<b>D</b> humidity
<b>5.</b> the average weather in a particular area	<b>E</b> Northern Hemisphere
<b>6.</b> areas of land lying near the equator	<b>F</b> revolve
<b>7.</b> parts of the world north of the equator	<b>G</b> rotate
<b>8.</b> an imaginary line halfway between the North	<b>H</b> Southern Hemisphere
and South Poles	I tropics
<b>9.</b> parts of the world south of the equator	<b>J</b> weather
<b>10.</b> the amount of water vapor in the air	
<ul><li><i>Directions</i> Answer each question on the lines. Use complete sentences.</li><li>11. What are prevailing winds? Give three examples.</li></ul>	
<b>12.</b> What are jet streams?	
<b>13.</b> Define air pressure.	
<b>14.</b> Explain the Coriolis effect.	
<b>15.</b> How does climate affect where organisms live?	

# **Our Changing World**

Name

**Directions** Write the letter of the answer that best completes each sentence.

1.	are long, cold	periods in Earth's hist	ory.	
	<b>A</b> Glaciers	<b>B</b> Pangaea	<b>C</b> Ice ages	<b>D</b> Rotations
2.	Scientists use radioact	tive elements called	to determine the	age of rocks.
	<b>A</b> radioisotopes	<b>B</b> atoms	<b>C</b> radio waves	<b>D</b> fossils
3.	Preserved traces or rea	mains of plants and an	imals are called	_•
	<b>A</b> radioisotopes	<b>B</b> fossils	<b>C</b> glaciers	<b>D</b> rocks
4.	rocks are mad	le up of layers of sand,	gravel, and mud.	
	<b>A</b> Fossilized	<b>B</b> Radioactive	<b>C</b> Sedimentary	<b>D</b> Proxy
5.	Masses of ice that mor	ve over land are called	·	
	<b>A</b> glaciers	<b>B</b> fossils	<b>C</b> sediments	<b>D</b> hail
6.	The sources, or	_, of rocks give clues t	o the earth's past.	
	A fossils	<b>B</b> radioisotopes	<b>C</b> origins	<b>D</b> sediments
7.	Earth's causes	day and night.		
	<b>A</b> radiation	<b>B</b> rotation	<b>C</b> precipitation	<b>D</b> revolution
8.	Information that is no	ot as precise as instrum	ent readings is called _	data.
	<b>A</b> proxy	<b>B</b> constructed	<b>C</b> radiometric	<b>D</b> global
9.	At one time, Earth had	d a single landmass cal	led	
	A Pangaea		<b>C</b> the North Pole	
	<b>B</b> the polar ice cap		<b>D</b> plate tectonics	
occi	_	to notice. Write F on t	re easy to notice. Other he line if the environmange is slow.	_
	<b>10.</b> Earth's rotation	on on its axis	<b>13.</b> weathe	er changes
	<b>11.</b> movement of	Earth's plates	<b>14.</b> global	climate changes
	<b>12.</b> the water cycl	e	<b>15.</b> mount	ain formation

# **Chapter 2 Vocabulary Review**

**Directions** Write the letter of the answer that best completes each sentence.

1.	When something is	, it has melted in	to a liquid.	
	<b>A</b> flowing	<b>B</b> molten	<b>C</b> condensed	<b>D</b> vaporized
2.	The moment-by-mon	nent conditions in an a	rea are called the	·
	<b>A</b> climate	<b>B</b> temperature	<b>C</b> atmosphere	<b>D</b> weather
3.	The is the layer	er of air surrounding th	ne earth.	
	<b>A</b> atmosphere	<b>B</b> hydrosphere	<b>C</b> lithosphere	<b>D</b> hemisphere
4.	Water or other materi	als in gas form are call	ed	
	<b>A</b> liquids	<b>B</b> vapors	<b>C</b> solids	<b>D</b> particles
<b>5</b> .	The is where l	life can be found on Ea	rth.	
	<b>A</b> biosphere	<b>B</b> thermosphere	<b>C</b> land	<b>D</b> core
6.	A is a frozen r	nass that orbits the sur	1.	
	<b>A</b> meteor	<b>B</b> moon	<b>C</b> star	<b>D</b> comet
<b>7</b> .	The are near t	the equator.		
	A ice caps	<b>B</b> temperate regions	C tropics	<b>D</b> North and South Poles
8.	The hot center of the	earth is called the	·	
	A axis	<b>B</b> core	<b>C</b> mantle	<b>D</b> crust
9.	When something	, it moves in a circle	e around a point.	
	A rotates	<b>B</b> turns	<b>C</b> revolves	<b>D</b> cycles
10.	The theory de	escribes how continents	s move over time.	
	A Pangaea	<b>B</b> shifting land	<b>c</b> floating continent	<b>D</b> continental drift
11.	Basic building blocks	of matter are called	·	
	<b>A</b> elements	<b>B</b> atoms	<b>C</b> minerals	<b>D</b> nutrients
12.	The is the lar	yer of air people live an	nd breathe in.	
	<b>A</b> troposhere	<b>B</b> mesosphere	<b>C</b> thermosphere	<b>D</b> stratosphere

## Chapter 2 Vocabulary Review, continued

<b>13.</b> The is the	source or beginning of	of something.	
<b>A</b> climax	<b>B</b> finale	<b>C</b> origin	<b>D</b> conclusion
<b>14.</b> The process of cha	anging from liquid to	vapor is called	
<b>A</b> transpiration	<b>B</b> respiation	<b>C</b> melting	<b>D</b> evaporation
<b>15.</b> A tiny piece of sor	mething is a(n)	_•	
<b>A</b> element	<b>B</b> particle	<b>C</b> compound	<b>D</b> pinnacle
<b>16.</b> The earth's surface	e layer of rock and soil	is called the	
<b>A</b> crust	<b>B</b> core	<b>C</b> vent	<b>D</b> mantle
<b>17.</b> was the sin	ngle landmass on Eart	h 200 million years ago.	
<b>A</b> Eurasia	<b>B</b> Pandemic	<b>C</b> Americana	<b>D</b> Pangaea
<b>18.</b> The prote	cts Earth from harmfu	ıl solar rays.	
<b>A</b> stratosphere	<b>B</b> jet stream	<b>c</b> ozone layer	<b>D</b> thermosphere
<b>19.</b> A(n) is a t	race of a plant or anin	nal preserved in rock.	
<b>A</b> artifact	<b>B</b> fossil	<b>C</b> skeleton	<b>D</b> preserves
<b>20.</b> To is to tu	rn in a circle.		
<b>A</b> revolve	<b>B</b> swirl	<b>C</b> rotate	<b>D</b> flip
<b>Directions</b> Match the Write the letter of each		ith those in Column B. e line.	
Column	A		Column B
-	ss of water moving fro	m the air to	<b>A</b> life-support system
	back to the air		<b>B</b> mesosphere
	hat provides everythin		<b>C</b> Northern Hemisphere
•	e earth's atmosphere bere and the thermosph		<b>D</b> plate tectonics
_	ow the earth's plates n		<b>E</b> water cycle
<b>25.</b> parts of th	ne world north of the 6	equator	

Date

## Chapter 2 Vocabulary Review, continued

	Column A		Column B
26.	lighter part of the earth's crust; makes up continents	F	axis
27.	water changing from vapor to liquid	G	chemical reaction
28.	a chemical change	н	condensation
29.	imaginary line halfway between the North and South Poles	1	continental crust equator
30.	straight line that an object rotates around	,	equator
31.	blue-green algae	К	cyanobacteria
32.	three major wind belts on Earth	L	prevailing winds
33.	layered rocks formed by sand, gravel, and mud	M	radioisotopes
34.	high-energy radiation from the sun	N	sedimentary rocks
35.	elements that help determine the age of rocks	0	ultraviolet radiation
36.	wind patterns caused by the rotation of the earth	P	Coriolis effect
37.	a tiny organism that lives in harsh environments	Q	extremeophile
38.	parts of the world south of the equator	R	ice age
39.	water moving from the inside of a plant into the atmosphere		Southern Hemisphere transpiration
40.	a period of global cooling		
41.	the solid surface and interior of the earth	U	air pressure
42.	a form of nitrogen that most plants can absorb	V	groundwater
43.	pressure caused by the weight of the atmosphere	W	hydrosphere
44.	the water layer of the earth	X	lithosphere
45.	masses of ice at the North and South Poles	Y	nitrate
46.	water found underground	Z	polar ice caps

## Chapter 2 Vocabulary Review, continued

7.	•	at was destroyed is called	
_	(sbedir)		
		is a piece of rock that hits a planet. (eeeorir	ntt
9.	Thecore. (lemnta)	is the layer of the earth surrounding the	
0.	The average weather of an are	ea is the (teimacl)	
1.	Rain, hail, sleet, and snow are (itpicnoreptia)	e types of	
2.	The	is above the troposphere. (tossaheprret)	
	Large masses of ice called (caglesri)	move over land.	
4.	When something is	, it is poisonous. (xcoti)	
<b>5</b> .	Theatmosphere. (tje rmeast)	is a strong air current high in the	
6.	A(n)	is an opening in the earth. (netv)	
		arth are	
	Earth's past climate can be stu	udied using fossilized evidence called (xorpy taad)	
9.	The	makes up the ocean floor. (naccoei urtcs)	
0.	A(n)	has only one kind of atom. (letemne)	
1.	Some plants can absorb nitrog (miummano)	gen in the form of	
2.	A(n) surface. (prutoeni)	is an explosion from beneath the earth's	
3.	The amount of moisture in th (dmiityuh)	ne air is known as	
4.	The layer of atmosphere above	-	

**Workbook Activity** 

Chapter 3, Lesson 1

14

# **Everything Is Connected**

*Directions* When you compare and contrast, you tell how things are alike and how they are different. Compare and contrast each pair below.

<b>1.</b> ecology and e	ecologist				
<b>A</b> How they a	are alike:				
<b>B</b> How they a	are different:				
<b>2.</b> biotic factors	and abiotic factor	s			
<b>A</b> How they a	are alike:				
<b>B</b> How they a	are different:				
<b>3.</b> domains and					
<b>A</b> How they a	are alike:				
<b>B</b> How they a	are different:				
<b>Directions</b> Use the Write the terms of			plete the parag	raph.	
banned	Word E	pesticides	etrong		
crushed	disappearing	•	strong		
In the 1960s, scien	ntists noticed that	peregrine falcor	ns were <b>4.</b>	·	
After studying the	e problem, they di	scovered that a c	chemical pestic	ide called	
5	was	s responsible. Far	rmers use <b>6.</b>		
	that feed on their				
DDT, the chemica	al <b>7.</b>	1	them. When pe	eregrine	
falcons ate the po	isoned birds, DDT	built up in thei	r bodies. DDT	prevented	
females from layi	ng eggs with <b>8.</b>		shel	ls. The weight	
of the parents 9		the e	ggs, and the ch	icks died.	
Eventually, DDT	was <b>10.</b>		, and bird po	opulations	
started to recover	•				

Chapter 3, Lesson 2

## Components of an Ecosystem

*Directions* Use the clues to complete the word or words below it.

1. group of different species that live and interact in the same area

С		m	m		n		t	у
---	--	---	---	--	---	--	---	---

2. all of the earth's ecosystems

I	b		s	р	h	r	
ı				1			

**3.** the creation of new life

r	p	r	d	С	t		n

**4.** made up of living and nonliving factors that interact

c   s   y   s   t   r
-----------------------

**5.** members of the same species living in one area

**6.** to use the same matter many times and in many different forms

r	С	y	С	1	
---	---	---	---	---	--

**7.** a combination of several atoms

m	1		С		1	
---	---	--	---	--	---	--

**Directions** Answer each question on the line. Use complete sentences.

- **8.** What two jobs do all ecosystems share?
- **9.** Ecosystems get almost all of their energy from what source? \_\_\_\_\_
- **10.** What is cellular respiration?

Chapter 3, Lesson 3

## Producers, Consumers, and Decomposers

*Directions* Complete the table. Write the letter of the correct word on the line.

**A** consumer

**D** lion

**B** decomposer

**E** producer

Date

**C** grass

Types of Organism	Process of Getting Food	<b>Examples of Organism</b>		
1	Capture the sun's energy	2		
3	Eats producers and other consumers	4		
5	Breaks down dead organisms and other organic wastes	Fungi		

**Directions** Unscramble the word in parentheses to complete each sentence. Write the answer on the line.

6.	In the process of	, some organisms use
	chemicals to create nutrients.	(nsyssethoheimc)

<b>7.</b>	Molecul	es that	do not	contain	carbon	atoms	are c	lescril	oed	as
					(gironir	nca)				

8.	Carbon-containing matter that is alive or was once alive is called
	matter. (gcinoar)

Chapter 3, Lesson 4

# **Energy Flow in Ecosystems**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

	vvora Bank						
	energy pyramid tertiary consumer(s) trophic lessecondary consumer(s)	onsumer(s) vel					
1.	one trophic level to the next.	how energy is transfer	ered from				
2.	<b>2.</b> A(n) is a fe	eding level in a food ch	ain or food web.				
3.	<b>3.</b> Carnivores that feed on other carnivores	are called	·				
4.	<b>1.</b> Carnivores that feed on herbivores are ca	lled	·				
<b>5</b> .	<b>5.</b> Herbivores that feed on plants are						
	<i>Directions</i> Answer each question on the lines. Use complete sentences.  6. What are three examples of secondary consumers?						
7.	7. Why are there more producers than consumers in an ecosystem?						
8.	How does a food web differ from a food chain?						
9.	Describe the path of energy through a food chain.						
10.	On what resource do all organisms in an on for energy?	ecosystem depend					

# **Relationships Within Ecosystems**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

		Word Bank					
	camouflage	mimicry	predation				
	competition	niche	prey				
1	T.,						
I.	another organisi		ne organism hunts and				
2.	Some species use	e					
	behaviors—to prevent being eaten.						
3.	The animal that	a predator feeds o	on is called its				
4.			the role an organism pla				
	in its ecosystem.						
5.	occurs.						
6.	_		to look like				
	more dangerous	s species.					
Dir	ections Answer	each question on t	he lines. Use complete s				
7.	How does comp	etition affect a cor	nmunity?				
8.	8. How are an organism's habitat and niche related?						
<b>J</b> .	11011 410 411 0180	oiii o iiuoitut aiit					
•	Name to		andreas Communication				
9.	Name two ways	prey protect them	selves from predators				
10.	Bats and dragon	iflies both eat mos	quitoes but are not in co				

## **Ecosystems and Change**

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **1.** The process of change in an ecosystem over time is called (distribution, climax community, succession).
- **2.** In (secondary succession, primary succession, distribution), a lifeless environment develops into a community.
- **3.** Changes in communities that have been disturbed by humans or natural disasters are (secondary succession, primary succession, distribution).
- **4.** The last step in the succession of an ecosystem is called a(n) (old-growth forest, distribution, climax community).
- **5.** A(n) (climax community, old-growth forest, pioneer species) contains trees that may be hundreds of years old.

**Directions** Match the items in Column A with those in Column B. Write the letter of the correct answer on the line.

C	Column A		Column B
 <b>6.</b> to	o break apart or wear away	A	distribution
 <b>7.</b> tl	he first species to arrive in an area	В	diverse
<b>8.</b> v	aried or containing many different organisms	C	erode
	e , e	D	lichen
	n organism made of a fungus, a green alga,	E	pioneer species
IU. a.	ii organisiii inade or a rungus, a green alga,		

**Directions** Complete the chart. Write *P* in the last column to indicate primary succession. Write *S* to indicate secondary succession.

and a cyanobacterium

Statement	Type of Succession
11. New volcanic island	
<b>12.</b> Pioneer species	
<b>13.</b> After a flood or a fire	
<b>14.</b> Succession in a lifeless environment	
<b>15.</b> When farmland is abandoned	

# **Chapter 3 Vocabulary Review**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A		Column B
1.	carnivores that feed on herbivores	A	carrion
2.	nonliving substance important to human health	В	mineral
3.	bright colors or patterns to scare off predators	C	producer
4.	an organism that makes its own food	D	secondary consumer
	a dead animal or rotten meat	E	warning coloration
6.	cycle showing how predator and prey populations are linked		ban boom-bust cycle
<b>7.</b>	to forbid by law		food chain
8.	feeding order of organisms in a community		recycle
<b>9</b> .	using the same matter many times in different forms	J	trophic level
10.	a feeding level in a food chain		
11.	living things that must be magnified to be seen	K	consumer
12.	process of natural change in an ecosystem over time	L	microorganism
13.	organism that feeds on other organisms	M	molecule
14.	living or dead materials that contain carbon	N	organic
15.	combination of several atoms	0	succession
16.	three largest groups of similar organisms	P	domain
17.	food	Q	energy pyramid
18.	chemical that absorbs certain kinds of light energy	R	nourishment
19.	diagram that shows the amount of energy in different trophic levels		pigment reproduction
20	the creation of new life	•	

#### Chapter 3 Vocabulary Review, continued

Column A	Column B
<b>21.</b> members of one species living in the same area	<b>U</b> biotic factor
22. living part of the environment	<b>V</b> chemosynthesis
<b>23.</b> contains trees that can be hundreds of years old	<b>W</b> niche
<b>24.</b> an organism's role in an ecosystem	<b>X</b> old-growth forest
<b>25.</b> creating energy from chemicals	<b>Y</b> population
<b>26.</b> animal that feeds on dead plants or animals	<b>Z</b> scavenger

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **27.** The arrangement of species in a community is known as (succession, distribution, diversity).
- **28.** When organisms (adapt, camouflage, coexist), they exist at the same time in the same place.
- **29.** A(n) (community, ecosystem, biosphere) is made up of different populations interacting in an area.
- **30.** Herbivores that feed on plants are called (primary consumers, secondary consumers, tertiary consumers).
- **31.** A(n) (organic, biotic, inorganic) substance does not contain carbon.
- **32.** Succession that occurs in an uninhabited place is (distribution, primary succession, secondary succession).
- **33.** When an organism has (camouflage, warning coloration, mimicry), it can blend in and hide from predators.
- **34.** The last step in the succession of an ecosystem is a (pioneer species, trophic level, climax community).
- **35.** When all the food chains in a community are linked together, it creates a(n) (energy pyramid, food web, trophic level).
- **36.** The study of how living things interact with each other and the environment is (biology, botany, ecology).
- **37.** A(n) (prey, herbivore, predator) hunts and feeds on other consumers.
- **38.** An animal that eats both plants and animals is a(n) (herbivore, omnivore, carnivore).

Chapter 3

#### Chapter 3 Vocabulary Review, continued

<b>39</b> .	Cells use (photosynthesis, cellular respiration, chemosynthesis) to produce
	energy from carbohydrates.

- **40.** (Lichens, Omnivores, Decomposers) are organisms made up of fungi, green algae, and cyanobacteria.
- **41.** A consumer that is eaten by a predator is (competition, niche, prey).
- **42.** To break apart or wear away is to (erode, erupt, deposit).
- **43.** A(n) (microorganism, abiotic factor, biotic factor) is a nonliving part of the environment.
- **44.** When individuals try to use the same limited resources, there is (predation, competition, succession).
- **45.** Plants contain a green pigment called (chlorophyll, chloroplast, carbon dioxide), which absorbs sunlight.
- **46.** A(n) (herbivore, omnivore, carnivore) only eats plants.

Dire	<b>ections</b> Write the le	tter of the correct ans	wer on the line.	
<b>47</b> .	Organisms that bre	ak down organic mat	ter are	
	<b>A</b> decomposers	<b>B</b> producers	<b>C</b> consumers	<b>D</b> scavengers
48.	A(n) is a sc	ientist who studies ec	ology.	
	A zoologist	<b>B</b> biologist	<b>C</b> geneticist	<b>D</b> ecologist
<b>49</b> .	A(n) is a ca	rnivore that feeds on	other carnivores.	
	A primary consun	ner	<b>C</b> tertiary consur	ner
	<b>B</b> secondary consu	imer	<b>D</b> producer	
<b>50</b> .	The first species to	arrive in an area are c	alled	
	<b>A</b> abiotic factors		<b>C</b> producers	
	<b>B</b> pioneer species		<b>D</b> primary consu	mers
<b>51</b> .	The process plants	use to change the sun	's energy into sugars is	called
	<b>A</b> chemosynthesis		<b>C</b> transformation	1
	<b>B</b> photosynthesis		<b>D</b> decomposition	1
<b>52</b> .	A(n) is an a	animal that eats other	animals.	
	<b>A</b> producer	<b>B</b> carnivore	<b>C</b> herbivore	<b>D</b> omnivore

## Chapter 3 Vocabulary Review, continued

<b>53</b> .	Changes that occur in	ecosystems that have l	oeen disturbed are a res	ult of
	A primary succession	l	<b>C</b> decomposition	
	<b>B</b> secondary succession	on	<b>D</b> erosion	
<b>54</b> .	A level of classification	n inside a domain is kr	nown as a(n)	
	<b>A</b> kingdom	<b>B</b> ecosystem	<b>C</b> dominion	<b>D</b> classification
<b>55</b> .	When a predator hunt	s and eats its prey it is	called	
	<b>A</b> succession	<b>B</b> predation	<b>C</b> selection	<b>D</b> mimicry
<b>56</b> .	When a habitat is	, it has many varied	l species.	
	<b>A</b> disturbed	<b>B</b> organic	<b>C</b> diverse	<b>D</b> successional
<b>57</b> .	In, one species	s looks, sounds, or acts	like a more dangerous	species.
	<b>A</b> camouflage		<b>C</b> warning coloration	1
	<b>B</b> mimicry		<b>D</b> predator	
<b>58</b> .	The structures in plan	t cells that contain chlo	orophyll are	
	A roots	<b>B</b> cells	<b>C</b> cultures	<b>D</b> chloroplasts
<b>59</b> .	Chemistry is the study	of and its cha	nges.	
	<b>A</b> matter	<b>B</b> the environment	<b>C</b> animals	<b>D</b> plants

Chapter 4, Lesson 1

## **Introducing Biodiversity**

**Directions** Complete the table. Write the letter of the correct description or example on the line.

- **A** Deserts, grasslands, and swamps
- **D** Eastern bluebirds, African lions, and great white sharks

**B** Ecosystem

**E** Variety of genes in living things

**C** Species

Types of Biodiversity	Definition	Examples
1	Variety of species on Earth	2
Genetic	3	Hair color and eye color
4	Variety of ecosystems on Earth	5

Date

**Directions** Write the letter of the answer that best completes each sentence.

- **6.** A \_\_\_\_\_\_ is passed from parent to offspring. It carries information about a trait.
  - **A** species
- **B** culture
- **C** biotic factor
- **D** gene
- **7.** An inherited characteristic, like brown eyes, is a(n) \_\_\_\_\_.
  - A trait
- **B** ethic
- **C** organism
- **D** variable

- **8.** The protection of natural resources is \_\_\_\_\_
  - **A** ecology
- **B** conservation
- **C** biology
- **D** biodiversity

**Directions** When you compare and contrast, you tell how things are alike and how they are different. Compare and contrast each pair below.

- **9.** biologist and conservationist
  - A How they are alike:
  - **B** How they are different:
- **10.** species diversity and genetic diversity
  - A How they are alike:
  - **B** How they are different:

# **Measuring Diversity**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

		vvora Bank			
	endangered endemic extinction	invertebrate mass extinction	specimen taxonomy		
1.	The loss of all mer	mbers of a species is	3	· •	
2.	An animal that do	es not have a backb	oone is a(n)	·	
3.	During a(n) becomes extinct.		, a large number	of species	
4.	A(n) and nowhere else.		ecies is found in one p	part of the world	
5.	In the branch of so classify species.	cience called		_, scientists	
6.	Species that are		are in danger	of extinction.	
Dire	<b>ections</b> Answer ea	ch question on the	line. Use complete sei	ntences.	
		-	ve been identified wo		
8.	Why do scientists	not know the exact	number of species or	n Earth?	
9.	Why might a scien	ntist collect a specin	nen of a species?		
10.	How can samples	help scientists estin	nate the total number	of species on Earth?	
		_			

**Workbook Activity** 

Chapter 4, Lesson 3

## **Evolution and Adaptation**

**Directions** Use the clue to complete the word below it.

**1.** The process of genetic change in a population over time is \_\_\_\_\_.

		1	_		
	V	1	τ		n

2. Animals of the same species may be separated by a physical barrier. If this happens, the animals cannot \_\_\_\_\_, or breed together.

|--|

**3.** A trait that helps an organism survive in its environment is a(n) \_\_\_\_\_.

d	p	t	t	i	n

**4.** The evolution of a new species is \_\_\_\_\_.

				4		
	Р	C		ι		11

**5.** Species can \_\_\_\_\_, or develop genetically over time.

v		1	v	
---	--	---	---	--

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

#### Column A

- **6.** organisms best suited to the environment pass these to their offspring
- **7.** location visited by Charles Darwin in 1835
- **8.** to breed together
- **9.** birds studied by Darwin on his travels
- **\_ 10.** a sudden change in an organism's genes

#### Column B

- **A** finches
- **B** Galápagos Islands
- **C** genes
- **D** interbreed
- **E** mutation

Chapter 4, Lesson 4

## A Web of Life

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

<ol> <li>A relationship between two species where both benefit is</li></ol>			Word	Bank		
1. An armlike body part used to capture food is a				1	•	
absorbs food from a host and harms it.  4. During		Keystone	nectar	pollination	tentacle	
<ol> <li>A relationship between two species where both benefit is</li></ol>	1	An armlike	hody part used t	o capture food	is a	
absorbs food from a host and harms it.  4. During				•		
<ol> <li>During</li></ol>			•	•		
<ul> <li>5. A species adds to the diversity of the ecosystem.</li> <li>6. Many flowers produce, a sweet liquid.</li> <li>7. A provides food for a parasite.</li> <li>8. A close relationship between two species is</li> <li>Directions Answer each question on the lines. Use complete sentences.</li> <li>9. What is pollen?</li></ul>						
of the ecosystem.  6. Many flowers produce						
6. Many flowers produce	Э.			species adds	to the diversity	
<ul> <li>8. A close relationship between two species is</li> <li>Directions Answer each question on the lines. Use complete sentences.</li> <li>9. What is pollen?</li></ul>	6.	•			, a swee	et liquid.
Directions Answer each question on the lines. Use complete sentences.  9. What is pollen?	7.	A		provides fo	od for a parasit	e.
				_	-	
9. What is pollen?			1	1		
10. How do animals help some plants disperse their seeds?	Dir	ections Ans	wer each questio	n on the lines. U	Jse complete se	ntences.
<ul><li>11. Name two types of symbiosis.</li><li>12. Define parasitism.</li><li>13. Why are beavers a keystone species?</li><li>14. Explain commensalism.</li></ul>	9.	What is pol	len?			
<ul><li>11. Name two types of symbiosis.</li><li>12. Define parasitism.</li><li>13. Why are beavers a keystone species?</li><li>14. Explain commensalism.</li></ul>	10.	How do ani	mals help some	olants disperse t	their seeds?	
12. Define parasitism						
13. Why are beavers a keystone species?  14. Explain commensalism			, ,			
<b>14.</b> Explain commensalism.		_				
-		·	·	-		
15. How can the loss of one species affect many other species?		-				
	15.	How can th	e loss of one spec	cies affect many	other species?	

# The Benefits of Biodiversity

*Directions* Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

	<b>Word Bank</b>		
compounds	ecosystem service	genetic diversity	
economy	eroding	staple crop	
A () 1	: h	C:4	
	is a bene		
Plants and animals	provide ecosystem service	es. Plants make oxygo	en and food.
The roots of plants	hold soil and stop it from	2	·
Animals support ec	osystems in many ways. I	nsects and other anii	mals
pollinate plants. Pla	ants that provide a basic pa	art of many people's	diets are called
3	Wild plants	have more <b>4.</b>	
than tame ones. Th	ey can be used to improve	e crops like tomatoes	. People also
benefit from natura	l materials that are medic	ines. Some natural <b>5</b>	j
combinations of tw	o or more elements, help s	save lives. Medicine i	s part of the
global <b>6.</b>	, a syst	em of production, di	stribution,
and consumption.			
	mble the word or words in ence. Write the answer on	*	
<b>7.</b> People in	aı	reas live inside the cit	ry. (arnub)
	ny natural resources are do		
<b>9.</b> Areas away from (ulrra)	m the city are described as		·
<b>10.</b> People depend breathe. (nexpo	on the	produced	by plants to

# **Chapter 4 Vocabulary Review**

**Directions** Write the letter of the answer that best completes each sentence.

1.	Areas away from a city	are called		
	<b>A</b> urban	<b>B</b> rural	<b>C</b> northern	<b>D</b> distant
2.	is a branch of	science dealing with th	ne classification of spec	ies.
	<b>A</b> Ecology	<b>B</b> Chemistry	C Biology	<b>D</b> Taxonomy
3.	In, one species	s benefits and the other	r is not affected.	
	<b>A</b> mutualism	<b>B</b> parasitism	<b>C</b> commensalism	<b>D</b> predation
4.	The evolution of a new	species is called	·	
	<b>A</b> mutualism	<b>B</b> speciation	<b>C</b> interbreeding	<b>D</b> distinction
5.	A(n) species is	only found in one par	t of the planet.	
	<b>A</b> endemic	<b>B</b> pandemic	<b>C</b> local	<b>D</b> extinct
6.	Species without backb	ones are called	<u>.</u> •	
	<b>A</b> vertebrates	<b>B</b> reptiles	<b>C</b> invertebrates	<b>D</b> mammals
7.	A(n) is a comb	oination of two or more	e elements.	
	<b>A</b> mineral	<b>B</b> atom	<b>C</b> cell	<b>D</b> compound
8.	To is to develo	p and change genetica	lly.	
	<b>A</b> distinct	<b>B</b> interbreed	<b>C</b> evolve	<b>D</b> migrate
9.	The variety of genes for	ound in living things is	called	
	<b>A</b> species diversity	<b>B</b> genetic diversity	<b>C</b> trait variation	<b>D</b> gene pool
10.	A is an armlik	e body part used to ca	pture food.	
	<b>A</b> ganglia	<b>B</b> tentacle	<b>C</b> tail	<b>D</b> radula
11.	In, one species	s benefits and the other	r is harmed.	
	<b>A</b> mutualism	<b>B</b> commensalism	<b>C</b> parasitism	<b>D</b> predation
12.	The is a system	n of production, distril	bution, and consumpti	on.
	<b>A</b> ecosystem	<b>B</b> community	<b>C</b> economy	<b>D</b> government

#### Chapter 4

## Chapter 4 Vocabulary Review, continued

13.	• A sweet liquid produced by many flowers is known as			
	<b>A</b> pollen	<b>B</b> serum	<b>C</b> xylem	<b>D</b> nectar
14.	A(n) is someon	ne interested in preser	ving species and ecosys	tems.
	<b>A</b> conservationist	<b>B</b> naturalist	<b>C</b> economist	<b>D</b> botanist
15.	In the process of	, better-suited orgar	nisms survive to pass or	n their genes.
	<b>A</b> predation		<b>C</b> taxonomy	
	<b>B</b> symbiosis		<b>D</b> natural selection	
16.	An organism that prov	vides food for a parasit	e is called a	
	<b>A</b> prey	<b>B</b> host	<b>C</b> predator	<b>D</b> specimen

Date

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A	Column B
17.	inside a city	ecosystem service
18.	to breed together	extinction
19.	a quick study of an area's biological diversity	interbreed
20.	the complete loss of all members of a species	rapid assessment
21.	a benefit provided by Earth's ecosystems	urban
22.	the process of genetic change over time	adaptation
23.	a trait that makes an organism better suited	evolution
	to its environment	l pollen
24.	tiny particles that help fertilize plants	species diversity
25.	the diversity of species on Earth	spiritual
26.	having to do with religion or the soul	

## Chapter 4 Vocabulary Review, continued

		Column A		Column B
	27.	a basic part of many people's diets	(	conservation
	28.	down from parents to offensing		distinct gene
	29.		•	seed dispersal
	30.			staple crop
	31.	separate; different		T T
	32.	a soft-bodied animal that lives in a hard shell	<b>&gt;</b> (	economic
	33.	an inherited characteristic	<b>)</b>	keystone species
	34.	a period of time when high numbers of	<b>?</b> 1	mass extinction
		species become extinct	5 1	mollusk
	35.	an example of a species	Γ	specimen
	36.	an organism that contributes to the diversity of an ecosystem	J 1	trait
	37.	having to do with money		
		Read each statement. Unscramble the word or words in to complete each sentence. Write the answer on the line.		
38.	The tra	insfer of pollen between plants is calledtnoil)		
<b>39</b> .	A(n)	absorbs food from a host and harms	it.	(tesapair)
<b>40</b> .	A(n)	is a small part of a larger unit. (peml	as)	
41.		versity of ecosystems on Earth is known asssec tidevyrsi)		·
<b>42</b> .	A close	relationship between two species is called		(ossbimiys)
43.	A(n) genes. (	is a sudden change in an organism's (umattoin)		
44.	Anima	ls that are are at risk of extinction.	(ne	eddergaen)
45.		ionship that benefits both species involved is known as (tulamisum)		

Chapter 5, Lesson 1

## What Is a Biome?

bitats	<b>B</b> categories	<b>C</b> communities	<b>D</b> biomes
Habitats	<b>b</b> categories	Communicies	<b>D</b> biomes
gives the	distance north or south	of the equator.	
<b>A</b> Longitude	<b>B</b> Altitude	<b>C</b> Latitude	<b>D</b> Salinity
Organisms that li	ve or grow in water are	·	
<b>A</b> aquatic		<b>C</b> seasonal	
<b>B</b> local		<b>D</b> terrestrial	
is how hi	gh a place is above sea le	evel.	
<b>A</b> Latitude	<b>B</b> Altitude	<b>C</b> Longitude	<b>D</b> Salinity
hiomes co	ontain more salt than ot	her aquatic biomes	
<b>A</b> Saltwater	<b>B</b> Freshwater	•	<b>D</b> River
	<b>=</b> 110011114101	• 10110001101	- raver
The amount of sa		e of water is called its	
	lt contained in a sample <b>B</b> salinity		
The amount of sa	<b>B</b> salinity		<b>D</b> category
The amount of sa <b>A</b> altitude  ections Answer ea	<b>B</b> salinity	<ul><li>C region</li><li>. Use complete sentence</li></ul>	<b>D</b> category
The amount of sa <b>A</b> altitude  ections Answer ea	<b>B</b> salinity ach question on the line	<ul><li>C region</li><li>. Use complete sentence</li></ul>	<b>D</b> category
The amount of sa <b>A</b> altitude  ections Answer ea	<b>B</b> salinity ach question on the line	<ul><li>C region</li><li>. Use complete sentence</li></ul>	<b>D</b> category
The amount of sactions Answer earth's	<b>B</b> salinity ach question on the line 10 major terrestrial bion	€ region . Use complete sentence mes?	<b>D</b> category
The amount of sactions Answer earth's	<b>B</b> salinity ach question on the line	€ region . Use complete sentence mes?	<b>D</b> category
The amount of sa  A altitude  ections Answer ea  What are Earth's  What characterize	B salinity  ach question on the line  10 major terrestrial bion  es the terrestrial biomes	region  . Use complete sentence mes?  ?	<b>D</b> category
The amount of sa  A altitude  ections Answer ea  What are Earth's  What characterize	<b>B</b> salinity ach question on the line 10 major terrestrial bion	region  . Use complete sentence mes?  ?	<b>D</b> category
The amount of sa  A altitude  ections Answer ea  What are Earth's  What characterize	B salinity  ach question on the line  10 major terrestrial bion  es the terrestrial biomes	region  . Use complete sentence mes?  ?	<b>D</b> category
The amount of sa  A altitude  ections Answer ea  What are Earth's  What characterize	B salinity  ach question on the line  10 major terrestrial bion  es the terrestrial biomes	region  . Use complete sentence mes?  ?	<b>D</b> category
The amount of sa  A altitude  ections Answer ea  What are Earth's  What characterize	B salinity  ach question on the line 10 major terrestrial bion  es the terrestrial biomes  ms grouped into terrestrial	region  . Use complete sentence mes?  ?	<b>D</b> category

## **Rain Forest Biomes**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

Column A	Column B
<b>1.</b> removal of forests for land development	<b>A</b> buttress
<b>2.</b> the part of a forest below the canopy	<b>B</b> canopy
<b>3.</b> native to a place	<b>C</b> emergents
<b>4.</b> to harvest trees and use their wood	<b>D</b> deforestation
<b>5.</b> the "roof" of the rain forest	<b>E</b> forest floor
<b>6.</b> decomposing material fallen to the ground	<b>F</b> indigenous
<b>7.</b> special root structures that help support giant trees	<b>G</b> log
<b>8.</b> trees that stick up through the canopy	<b>H</b> understory
<ul><li><i>Directions</i> When you compare and contrast, you tell how things are alike and how they are different. Compare and contrast the pairs of words below.</li><li>9. tropical rain forests and temperate rain forests</li><li>A How they are alike:</li></ul>	
B How they are different:  10. understory and forest floor  A How they are alike:	
<b>B</b> How they are different:	

reptile

taiga

acidic

amphibian

## **Deciduous and Coniferous Biomes**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

dormant

evergreen

	conifer coniferous forests coniferous trees deciduous trees An egg-laying animal that	hibernate humus latitude migrate t breathes with lung	temperate deciduous forests s is a(n)	
	A(n)	_		
3.	Some trees become		, or inactive, in the	e winter.
4.	Coniferous forests are also	o called the		
5.	Decomposed plant and ar is part of fertile soil.	nimal material calle	d	
6.	Needles that fall on the so	oil in coniferous fore	ests make the soil	
7.	A(n) the water and part on land		al that spends part of	its life in
8.	Many animals climate, or environment t		or move from one reg	gion,
9.	Some animals the winter.	i	n a sleeplike condition	n to pass
10.	Another name for a conif	erous tree is		<u>.</u>
11.	The temperate deciduous	forests are found be	etween 30° and 50° no	orth
12.	Instead of leaves,		_ have needles.	
13.	Every autumn,		shed their leaves.	
14.	The eastern half of North	America is covered	mostly by	·
15.	Thethe world.	make up th	e largest terrestrial bi	ome in

## **Grassland Biomes**

**Directions** Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

		<b>Word Bank</b>		
	Antarctica	grass	prairies	
	diversity	grassland	savannas	
The	1	bio	mes get less precipitatio	n than
fore	st biomes. Biom	nes that receive little	rain have less animal	
2		than the	ose that get a lot of rain	. Grasslands
are	found on every	continent except 3.		Some
gras	sslands are most	tly <b>4.</b>	Others l	nave small shrubs mixed with
oth	er dry-weather p	olants. Tropical grass	lands are <b>5.</b>	·
The	y contain scatte	ered trees. Temperate	grasslands are called	
<b>6</b>		In thes	e regions, the soil is ver	y rich.
	ections Unscra te the answer or		rentheses to complete ea	ach sentence.
7.	The top, fertile	layer of soil is called		(spooilt)
8.	•	n is healthy for the so	_, farm animals eat mo il. (greozavrgni)	re of the native
9.		called found in coastal area	have sh as. (plahaarrc)	ort scrubby
10.		the grasslands have s	small, hard leaves that ye, water. (eecvorns)	

## **Tundra and Desert Biomes**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

	<b>Word Bank</b>		
alpine	cold	hot	
Arctic	deserts	permafrost	
bog	extract	tundra	
1. Oil compan from the so			, oil and minerals
2. Permanentl	y frozen soil found	in the tundra is calle	d
<b>3.</b> The for most of		biomes are treeles	ss plains that stay frozen
	ng plant matter.	is an area of wet	spongy ground full of
<b>5.</b> Hot biomes	that get less than 2	25 cm of precipitation	n a year are called
<b>6.</b> In a(n)		desert, temper	atures are high all year.
	located north of th	ne Arctic Circle is call undra.	ed the
	ere temperatures c	an drop below 0°C is lesert.	a
<b>9.</b> The		tundra is located	above the tree line of
high mount	tains.		
		e description is for alp if the description is	
<b>10.</b> sho	rt growing season,	desertlike conditions	3
<b>11.</b> loca	ated north of the A	rctic Circle	
<b>12.</b> four	nd on the tops of n	nountains	
<b>13.</b> tun	dra habitat with lo	nger growing season	
<b>14.</b> has	carnivores like fox	tes and polar bears	
<b>15.</b> exti	remely cold region	where soil is perman	ently frozen

## **Marine Biomes**

Name

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

	abyss	intertidal zone	nursery	
	aphotic	krill	oceanic zone	
	coral	mangrove	photic	
	disphotic zone	marine biomes	phytoplankton	
	estuary	neritic zone	vertical zone	
				l
1.	The	is the deepest	ocean zone.	
2.	Aquatic biomes that co	ntain large amounts of s	alt are called	
3.	Tiny shrimplike anima for other marine anima	ls calledals.	provide f	Good
4.	Thelight.	is the middle	ocean depth with little	e to no
<b>5</b> .	The	is between hi	gh and low tide marks.	
6.	An ocean zone classifie	d by water depth is $a(n)$		·
<b>7</b> .	The open ocean is also	called the	·	
8.	The zone between the is known as the	ntertidal zone and the ed	lge of the continental s	shelf
9.	A(n) and salt water meet.	is a marine e	cosystem where freshv	vater
10.	A place where marine of	organisms hatch and gro	w is called a(n)	
11.	Coastal wetlands include	de salt marshes and		_ swamps.
12.	In salt water, colonies of	of tiny polyps form		_ reefs.
13.	The topmost level of th	ne ocean is the	ZOI	ie.
14.	The base of many mari	ne food chains is made o	of	·
15.	In the	zone of the	ocean, the water is col	d and dark.

**Workbook Activity** 

Chapter 5, Lesson 7

#### **Freshwater Biomes**

**Directions** Use the clue to complete the word below it.

1. An inland body of freshwater shallow enough for plants to grow is a \_

d n p

**2.** A \_\_\_\_\_\_ is the bed of a river or stream that directs flowing water.

n

**3.** A \_\_\_\_\_ is an inland body of freshwater mostly too deep for plants to grow in.

1 k

**4.** Soils saturated with water are referred to as being \_\_\_\_\_.

d W g g

**5.** Water is a \_\_\_\_\_ resource, which means it can run out.

f n

**6.** The \_\_\_\_\_ is the upper part of a river or stream near its source.

h

**7.** The place where a river enters a larger body of water is its \_\_\_\_\_.

h m

**8.** Some ponds are \_\_\_\_\_. They dry up during part of the year.

1 S

**9.** To create by physical processes is to \_

**10.** Streams and rivers are examples of \_\_\_\_\_ water.

f 1 W n g

## **Chapter 5 Vocabulary Review**

*Directions* Chose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

		Word Bank		
	acidic conifer deciduous tree	deforestation extract intertidal zone	latitude wetland	
1.	The marks.	is the	e zone between high	and low tide
2.	When forests are	removed in order to o	levelop land, it is call	ed
3.	The distance nor	th or south of the equ	ator is known as	
4.	A(n)season.	shec	ds its leaves at the end	d of the growing
5.	Soil containing h	igh levels of acid is cal	lled	·
5.	То	is to ta	ake out or harvest.	
7.	A(n)stays green year-r	round.	cone-bearing tree wi	th needles that
В.	A low area that is	s saturated with water	is known as a(n)	
		Word Bank		
	bog	hibernate	tundra	
	emergent	marine biome	vertical zone	
	finite	savannas		
9.	Thereceives very little	biom	ne is a frozen treeless	plain that
0.	·	taller than the rain fo	rest canopy is knowi	n as a(n)
1.	Some animals during the winter	r.	, or become inac	ctive
2	. An ocean zone cl	assified by water dept	h is called a(n)	
3.		ds called ear the equator.		tain scattered tree

Chapter 5

## Chapter 5 Vocabulary Review, continued

15. A(n) is an area of wet, spongy ground full of decomposing plant matter.  16. A resource that is limited and can run out is called  Word Bank amphibian mouth salinity chaparral nursery topsoil desert oceanic zone understory  17. The of seawater describes the amount of salt dissolved in it.  18. An animal that spends part of its life in water and part on land is called a(n)  19. The forest layer beneath the canopy is called the  20. The of a river or stream is where it enters another, larger body of water.  21. Marine organisms hatch and grow in a(n)  22. The is a dry grassland found in coastal regions.  23. A hot area that receives less than 25 cm of precipitation a year is known as a(n)  24. The top, fertile layer of soil is known as  25. The is the open ocean.  Directions Define each term.  26. terrestrial  27. aquatic  28. altitude  29. canopy  30. indigenous	14.	A saltwater ecosystem is kno	wn as a(n)
Word Bank amphibian mouth salinity chaparral nursery topsoil desert oceanic zone understory  17. The of seawater describes the amount of salt dissolved in it.  18. An animal that spends part of its life in water and part on land is called a(n)  19. The forest layer beneath the canopy is called the  20. The of a river or stream is where it enters another, larger body of water.  21. Marine organisms hatch and grow in a(n)  22. The is a dry grassland found in coastal regions.  23. A hot area that receives less than 25 cm of precipitation a year is known as a(n)  24. The top, fertile layer of soil is known as  25. The is the open ocean.  Directions Define each term.  26. terrestrial  27. aquatic  28. altitude	15.		
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Directions Define each term.  26. terrestrial	24.	The top, fertile layer of soil is	known as
26. terrestrial	25.	The	is the open ocean.
27. aquatic         28. altitude         29. canopy	Dire	ections Define each term.	
27. aquatic         28. altitude         29. canopy	<b>26</b> .	terrestrial	
<b>28.</b> altitude			
<b>29.</b> canopy			

#### Chapter 5 Vocabulary Review, continued

<b>31.</b> migrate	 	 	
<b>32.</b> dormant			
<b>33.</b> evergreen			
<b>34.</b> conserve			
<b>35.</b> krill			
<b>36.</b> detritus			
<b>37.</b> colony			
<b>38.</b> saturated			
<b>39.</b> estuary			
<b>40.</b> waterlogged			

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A
	inland body of freshwater too deep for plants to grow on the bottom
	forest in tropical regions that receives a large amount of rain
43.	tundra located above the tree line on high mountains
44.	to harvest trees and use their wood
45.	temperate grasslands with very fertile soil

#### Column B

- **A** alpine tundra
- **B** lake
- C log
- **D** prairies
- **E** tropical rain forest

## Chapter 5 Vocabulary Review, continued

	Column A		Column B
46.	group of ecosystems with similar temperatures	F	biome
	and rainfall, or salinity and water depth	G	grassland
47.	forest in temperate regions that receives a large amount of rain	Н	phytoplankton
48	a microscopic plant that forms the base of	- 1	salt water
40.	the marine food chain	J	temperate rain forest
49.	water with high amounts of dissolved salt		
50.	large, open, grassy biome with few shrubs and trees		
51.	another name for prairie	K	abyss
52.	water with low amounts of dissolved salt	L	freshwater
53.	microscopic animals that float freely in water	M	permafrost
54.	permanently frozen ground at high	N	temperate grassland
	latitudes or high altitudes	0	zooplankton
55.	the deepest ocean zone		
56.	also known as taiga	P	Arctic tundra
57.	layer of decomposing material that covers	Q	buttress
	the soil in a forest	R	coniferous forest
58.	tundra located north of the Arctic Circle	S	coral reef
59.	special root structures that support a tree	Т	forest floor
60.	marine ecosystem formed from the skeletons of corals		

**D** bedrock

**A** topsoil

**B** humus

**72.** Decomposed plant and animal material make up a rich layer of soil called \_\_\_\_\_.

**C** permafrost

## Chapter 5 Vocabulary Review, continued

<b>73</b> .	A marsh that is perio	dically flooded by ma	rine water is called a(n)	·
	<b>A</b> barrier reef	<b>B</b> estuary	<b>C</b> salt marsh	<b>D</b> bog
<b>74</b> .	A(n) is a scale	y, egg-laying animal tl	nat breathes using lungs	<b>5.</b>
	<b>A</b> reptile	<b>B</b> amphibian	<b>C</b> bony fish	<b>D</b> mammal
<b>75</b> .	The bed of a river or	stream that directs flo	wing water is known as	a(n)
	<b>A</b> headwater	<b>B</b> channel	<b>C</b> mouth	<b>D</b> estuary
<b>76</b> .	The is the top	zone of the ocean th	at gets sunlight all year.	
	<b>A</b> abyss	<b>B</b> aphotic zone	<b>C</b> neritic zone	<b>D</b> photic zone
<b>77</b> .	A freshwater ecosyste	m with moving water	is called a(n)	
	A standing-water eco	osystem	<b>C</b> salt marsh	
	<b>B</b> flowing-water ecos	system	<b>D</b> estuary	
<b>78</b> .	A(n) is cover	ed by salt water or is v	vashed by tides daily.	
	<b>A</b> coral reef	<b>B</b> channel	<b>C</b> coastal wetland	<b>D</b> swamp
<b>79</b> .	When occurs	, animals eat more ve	getation than is healthy	for the soil.
	<b>A</b> herding	<b>B</b> deforestation	<b>C</b> logging	<b>D</b> overgrazing
80.	A very dry region wh	ere temperatures can	drop to 0°C is called a _	·
	<b>A</b> cold desert	<b>B</b> savanna	<b>C</b> hot desert	<b>D</b> taiga
81.	The middle zone of o	ocean life that gets littl	e or no light is called th	e
	<b>A</b> intertidal zone	<b>B</b> aphotic zone	<b>C</b> disphotic zone	<b>D</b> photic zone
82.	Saltwater swamps do	minated by mangrove	trees are known as	
	<b>A</b> lakes	<b>B</b> ponds	<b>C</b> mangrove swamp	s <b>D</b> bogs
83.	Another name for co	niferous forest is		
	<b>A</b> chapparral	<b>B</b> savanna	<b>C</b> taiga	<b>D</b> wetland
84.	A(n) is determined at the second control of the second contr	mined by distance fro	m the shore.	
	<b>A</b> horizontal zone		<b>c</b> aphotic zone	
	<b>B</b> photic zone		<b>D</b> vertical zone	

# **A Growing Population**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column	A		Column B
1.		e of growth, nearly	A	population is large
	will be added to the	ne world today.	В	6.4 billion
2.	Usually, growth ra	ite is expressed	C	9 billion
3.	Today, the total nuis more than	umber of people on Earth	D	as a percent
4		ns greatly impact the environme	E ant	larger amounts each year
~.	is because their		F	233,000 people
<b>5</b> .	By 2050, the popu	lation could be more than	·	
6.	Exponential grow	th means the population grows	by	
		y. Write the answer on the line.  Vord Bank		
	growth rate	migration		
	J-curve	world population		
_	On a graph, expor	nential growth forms a		
/.				
	The number of peris the	eople added to or subtracted from	m a population each yea	r
8.	is the	eople added to or subtracted from of people on the earth, the		

# **Population Patterns**

Name

<ul><li><i>Directions</i> Write the letter of the answer that be each sentence.</li><li>1. Populations that stay the same size are</li></ul>	-	
A overpopulated <b>B</b> underpopulated		<b>D</b> changing
<b>2.</b> In, the population is too large to be	supported by the resou	ırces available.
A overpopulation B conservation	C growth D family planning	
<b>3.</b> A change in population over time is called a	l	
<ul><li>A stabilizing effect</li><li>B population trend</li></ul>	<ul><li>C developing nation</li><li>D poverty level</li></ul>	
<b>4.</b> have strong economies based on ma	anufacturing and techn	ology.
<b>A</b> Developing nations	<b>C</b> Industrialized nati	ions
<b>B</b> Subsistence agriculture	<b>D</b> Demographers	
<b>5.</b> People who study populations are called		
A paleontologists B botanists	<b>C</b> demographers	<b>D</b> chemists
<b>6.</b> Females reach their when they are o	old enough to begin hav	ring children.
A trends	<b>C</b> life expectancy	
<b>B</b> poverty level	<b>D</b> reproductive age	
<b>Directions</b> Match the items in Column A with Write the letter of each correct answer on the lin		
Column A		Column B
<b>7.</b> the average number of births per we	oman	<b>A</b> family planning
<b>8.</b> deciding when and how many child	lren to have	<b>B</b> fertility rate
<b>9.</b> the total number of years a person i	is expected to live	<b>c</b> life expectancy
<b>10.</b> disposal of waste		<b>D</b> sanitation

# **Consumption and the Environment**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

Word Bank consumption fossil fuels renewable fisheries mining toxic waste  1. A material is poisonous to the en 2. Industries that catch and sell fish are 3. Using resources and creating waste is called 4. Sources of energy from fossilized plants and animals are 5. In, minerals are extracted from the following of the processes.  Directions Answer each question on the lines. Use complete senters and the processes of the process of t			Mand Dank		7
fisheries mining toxic waste  1. A material is poisonous to the e  2. Industries that catch and sell fish are  3. Using resources and creating waste is called  4. Sources of energy from fossilized plants and animals are  5. In, minerals are extracted from  6. Some resources are, or able to be natural processes.  Directions Answer each question on the lines. Use complete sent  7. Name two factors that affect the rate of consumption.  8. Why is consumption important for people?  9. What are three negative impacts of consumption?		.•		1.1	
1. A material is poisonous to the  2. Industries that catch and sell fish are  3. Using resources and creating waste is called  4. Sources of energy from fossilized plants and animals are  5. In, minerals are extracted from  6. Some resources are, or able to natural processes.  Directions Answer each question on the lines. Use complete ser  7. Name two factors that affect the rate of consumption.  8. Why is consumption important for people?  9. What are three negative impacts of consumption?		•			
2. Industries that catch and sell fish are		fisheries	mining	toxic waste	
2. Industries that catch and sell fish are	1	A	mat	erial is noisonous to th	ne e
<ol> <li>Using resources and creating waste is called</li></ol>				•	
4. Sources of energy from fossilized plants and animals are					
<ul> <li>5. In</li></ul>	3.	Using resources a	and creating waste	is called	
<ul> <li>6. Some resources are</li></ul>	4.	Sources of energy	y from fossilized pl	ants and animals are $\_$	
natural processes.  **Pirections** Answer each question on the lines. Use complete sent  7. Name two factors that affect the rate of consumption.  8. Why is consumption important for people?  9. What are three negative impacts of consumption?	5.	In	, mi	nerals are extracted fro	m
natural processes.  Directions Answer each question on the lines. Use complete sent  7. Name two factors that affect the rate of consumption.  8. Why is consumption important for people?  9. What are three negative impacts of consumption?	6.	Some resources a	are	, or able t	o b
7. Name two factors that affect the rate of consumption.  8. Why is consumption important for people?  9. What are three negative impacts of consumption?		natural processes	S.		
What are three negative impacts of consumption?					
	8.	Why is consump	tion important for	people?	
O. In what countries are consumption rates the highest?	9.	What are three n	egative impacts of	consumption?	
<b>0.</b> In what countries are consumption rates the highest?					
<b>0.</b> In what countries are consumption rates the highest?					
	I <b>O</b> .	In what countrie	s are consumption	rates the highest?	

Chapter 6, Lesson 4

# **Balancing Needs**

	ections Unscramble the word in parentheses to complete each ence. Write the answer on the line.
1.	A person's wealth is referred to as (enefuflac)
2.	Another word for fairness is (yqtuie)
3.	Goods that are not harmful to the environment are (tcioxnno)
	People suffering from do not get the nutrients they need to keep them healthy. (nnttlamuiroi)
5.	Decayed organic matter used to add nutrients to the soil is (tcpooms)
6.	People who are significantly overweight suffer from (bytiseo)
	Why do experts believe the impact of consumption will get worse?
8.	How are people changing their consumption habits?
9.	How are manufacturers changing their consumption habits?
10.	Explain the sustainable harvest of wood.

## **Chapter 6 Vocabulary Review**

Name

**Directions** Write the word or words that complete each sentence correctly. Find the word in the puzzle. Words may be forward, backward, upside down, or diagonal.

<b>1.</b> Another word for	wealth is		
----------------------------	-----------	--	--

2.	A(n)	_ is a large movement of people from
	one place to another.	

_	A .1	1 (	c · ·	
6.	Another wo	rd for	tairness i	S

7	The disposal	l of waste is kr	nown as	
<i>.</i>	THE GISPOSA	i oi wasie is ki	iowii as	

N	Ο	I	T	A	T	Ι	N	A	S
E	Ο	P	W	С	С	С	E	E	E
E	N	I	M	F	U	S	Ι	Q	Z
F	В	I	T	V	T	R	W	U	Ι
Н	W	V	M	A	E	Н	Z	Ι	L
A	X	V	R	Н	R	R	Q	T	Ι
A	V	V	S	M	Ο	G	T	Y	В
Ο	E	I	S	P	E	A	Ι	Y	A
P	F	D	N	E	R	T	Ο	M	Т
A	F	F	L	U	E	N	С	E	S

## Chapter 6 Vocabulary Review, continued

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A	Column B
10.	usual way of life for a person, community, or country	life expectancy
11.	harvested in a way that does not damage an ecosystem	3 nontoxic
12.	when a population is too large to be supported	: overpopulation
	by local resources	standard of living
13.	the total number of years a person is expected to live	sustainably harvested
14.	not poisonous to the environment	world population
15.	total number of people on Earth	
16.	the largest number of living things an area can support	carrying capacity
17.	energy sources like oil or coal that came from fossilized plants and animals	environmentally intelligent design
18.	waste that can be poisonous to living things	family planning
19.	design that reduces the impact of production	fossil fuels
20.	a curve showing exponential growth	<b>J</b> -curve
		toxic waste
22.	a nation with well-developed industries and economies	l birth rate
23.	the rate at which a population is increasing or decreasing	l consumption
24.	the process of using resources and producing waste	industrialized nation
25.	not getting enough calories or nutrients from food	growth rate
26.	the number of births per 1,000 people in a given year	malnutrition
27.	growing just enough food to support immediate local needs	subsistence agriculture

## Chapter 6 Vocabulary Review, continued

Dir	ections Unscramble the word or words in parentheses to
con	nplete each sentence. Write the answer on the line.
28.	A person of is neither too old nor too young to have children. (doructeervip gea)
	The state of being significantly overweight is called (yisebot)
	A resource that is can be renewed by natural processes. (waneerleb)
31.	A(n) is a nation that has not yet become industrialized. (pogevlendi tonnia)
<b>32</b> .	Growth that increases by a larger and larger amount is called (peatlixnneo wotghr)
33.	The average number of births per woman is known as the (yitetrilf tera)
	A is a scientist who studies populations. (gopedmarhre)
35.	Decomposed organic waste that is high in nutrients is called (toompsc)
36.	The is the number of deaths per 1,000 people in a given year. (tadhe erta)
	The amount one must earn to afford the things needed to live is called the (vortyep eellv)

Chapter 7, Lesson 1

## **Energy Basics**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

	first law of energy		transport
	•	second law of energy	•
	inefficient	transform	vibrations
	law		
1.	The	states that energy ch	nanges from
	high-quality to low-qual	ity forms.	
2.	A principle is also called	a(n)	·
3.	A dropped rock releases into the ground.	its energy as	
4.	То	is to change from one	e form to another.
<b>5</b> .	The	states that energy is	neither created
	nor destroyed.		
6.	A car burning gasoline is	s wasteful, or	·
7.	A(n)	is a company that p	provides a public
	service, such as water or	electricity.	_
8.	Energy is not always easy	7 to	, or move from
	one place to another.		
9.	Resources that are only a	wailable in a limited supply a	re
10.	The energy in a moving	car is	·
	2.		

## **Fossil Fuels**

	ections Write the letter a sentence.	of the answer that bes	st completes		
1.	A converts, or	changes, crude oil into	gasoline or heating oil		
	A dam	<b>B</b> generator	<b>C</b> turbine	<b>D</b> re	finery
2.	A machine that genera	tes electricity is called a	a		
	<b>A</b> refinery	<b>B</b> generator	<b>C</b> turbine	<b>D</b> di	atom
3.	Most fossil fuels come	from tiny, ancient alga	e called		
	<b>A</b> diatoms	<b>B</b> turbines	<b>C</b> reserves	<b>D</b> co	oal
4.	is another nam	e for crude oil.			
	A Coal	<b>B</b> Petroleum	<b>C</b> Contaminate	<b>D</b> Re	efinery
5.	is a thick, liqui	id mixture of hydrogen	ı, carbon, and other ele	ments	S.
	<b>A</b> Methane	<b>B</b> Sulfur oxide		<b>D</b> Co	
6.	are places whe	re a certain amount of	oil is known to be avai	lable.	
	A Reserves		<b>C</b> Generators		ower plants
	ections Choose the ter rectly. Write the answer		k that completes each o	uestic	on
7.	Natural gas can be use are removed.	d for fuel after its		_	Word Bank
8.	Decomposing plant m of years formed	aterial that was under	pressure for millions		coal impurities
9.	In the process ofsoil, and rock are remo	oved to expose the laye		ts,	strip mining tunnel mining
10.	In of coal deposits.	, large "room	s" are carved out		

## **Nuclear Energy**

*Directions* Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

#### **Word Bank**

chain reaction nuclear reactor nuclear fission radioactive nuclear power plant uranium

A process called 1. \_\_\_\_\_\_\_\_ releases energy trapped inside an atom. The process releases neutrons inside atoms. These neutrons split other atoms. This starts a 2. \_\_\_\_\_\_\_ that produces a lot of energy. The elements used in nuclear reactions are isotopes that are

3. \_\_\_\_\_\_\_. One type of radioactive isotope is

4. \_\_\_\_\_\_. Nuclear reactions take place inside of a

5. \_\_\_\_\_\_. The energy from these reactions is then converted to electricity in a 6. \_\_\_\_\_\_.

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

#### **Word Bank**

leukemia uranium mills tailings ventilation

- **7.** A disease of the blood that may be caused by radiation is
- **8.** Uranium is dug out of the ground then processed in \_\_\_\_\_
- **9.** People working in mines rely on \_\_\_\_\_\_ to supply fresh air.
- **10.** Radioactive mines and mills produce waste called \_\_\_\_\_\_.

**Workbook Activity** 

Chapter 7, Lesson 4

## **Solar Energy**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

		(	Colu	ımn	Α													Column B
		1.	uses	dens	se bu	ildi	ng n	nater	rials							A	1	passive solar cooling
		<b>2.</b> ]	keep	s sur	ıligh	t an	d he	ated	air a	way	fron	n a b	uild	ing		E	В	passive solar energy
		3.	the r	nost	basi	c fo	rm c	of sol	ar er	nergy	r					•		passive solar heating
Dir	ectio	ns (	Jse t	he cl	lue to	о со	mple	ete tl	he wo	ord b	elov	v it.						
4.		_		of artifi							_ use	es su	nligł	nt to	replac	e or		
	d			1		g	h	t		n	g							
5.	Ene	rgy f	rom	the	sun i	is ca	lled							er	nergy.			
	s		1		r													
6.	Any	mat	erial	that	t pre	vent	s he	at or	cold	l fror	n pa	ssin	g in (	or ou	t is			·
		n	s		1		t			n								
7.				h so					olar s	yster	ns, t	he su	ın's e	energ	y is			
		С	t		v													
8.	A sc	olar _							co	onve	rts tl	ne su	n's e	energ	y into	heat.		
	С		1	1		С	t		r									
9.	Dev	ices	that	conv	ert s	sunl	ight	into	elect	ricit	y are	e						
	p	h		t		v		1	t			С	s					
10.	An o	elect	rical							i	s use	ed to	dist	ribut	e elect	tricity	y t	o a region.
	p		w		r		g	r		d								

# **Energy from Earth's Natural Systems**

	<b>ections</b> Unscramble the word in partence. Write the answer on the line	· •	
1.	Power produced by moving water (rwoeorphyd)	r is called	
2.	Barriers built across rivers are	(asmd)	
3.	To move the water in a river or stream. (m)	means to travel against the flow of purtsae)	
4.	Fishupstream. (sladerd)	are sometimes used to help fish travel	
5.	To move as the water. (nsowmreatd)	means to travel in the same direction	
6.	The gravity of the sun and moon affect the surface of the ocean. (de	cause, which seit)	
7.	A wind into energy. (bneirut)	converts wind movement	
8.	Designers of power systems must or visual appearance, in mind. (ts	keep, seathecsi)	
9.	A group of wind turbines form a	wind (mfra)	
10.	A hot	is a natural flow of groundwater heated inside	de the earth. (gpnsir)
sen	ections Choose the term from the tence correctly. Write the answer of A spongelike, brown material is _ It is made of partly decomposed	on the line.	Word Bank
12			biomass
	A(n) shooting out of Earth's crust.	rred to as is a jet of hot liquid or steam	ethanol geothermal
14.	Organic material made by plants is	and animals	geyser peat
15.	A type of fuel made from corn or is .	sugar	

Chapter 7, Lesson 6

## **Energy for the Future**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

		Word Bank					
	compact fluorescent consumer	energy efficient fuel cell	hybrid vehicle mandated				
1.	runs on both a gasoline engine and ar electric motor.						
2.	2. One type of energy-efficient lightbulb is thelightbulb.						
3.	<b>3.</b> Products that do not waste energy are described as						
4.	<b>4.</b> A person who buys and uses products is a						
5.	<b>5.</b> Sometimes energy conservation is, or enforced by law.						
6.	<b>6.</b> A(n) is a device that converts substances lik hydrogen and oxygen to electricity.						
Dir	<b>ections</b> Answer each que	estion on the lines.					
	Why will the demand for		nange in the future?				
8.	8. What are two simple things people can do to conserve energy?						
9.	<b>9.</b> How much oil could be saved if home temperatures were lowered by six degrees?						
10.	Between 1970 and 1985,	why did cars become	more energy efficient?				

## **Chapter 7 Vocabulary Review**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

ethanol passive solar cooling first law of energy refinery isotopes second law of energy  1. When the core of a nuclear reactor completely melts, as a(n)  2. Corn and sugar cane can be used to make which is a liquid fuel.  3. Crude oil is turned into usable forms of energy in a  4. The states that energy is nor destroyed.  5. Atoms of the same element with different numbers of energy in a	
<ol> <li>isotopes second law of energy</li> <li>When the core of a nuclear reactor completely melts, as a(n)</li> <li>Corn and sugar cane can be used to make which is a liquid fuel.</li> <li>Crude oil is turned into usable forms of energy in a</li> <li>The states that energy is nor destroyed.</li> </ol>	it is known
<ol> <li>When the core of a nuclear reactor completely melts, as a(n)</li> <li>Corn and sugar cane can be used to make which is a liquid fuel.</li> <li>Crude oil is turned into usable forms of energy in a</li> <li>The states that energy is nor destroyed.</li> </ol>	it is known
as a(n)  2. Corn and sugar cane can be used to make which is a liquid fuel.  3. Crude oil is turned into usable forms of energy in a  4. The states that energy is nor destroyed.	it is known
which is a liquid fuel.  3. Crude oil is turned into usable forms of energy in a  4. The states that energy is nor destroyed.	, 1t 10 KHOWH
4. The states that energy is nor destroyed.	,
nor destroyed.	
5 Atoms of the same element with different numbers of	is neither created
called	of neutrons are
<b>6.</b> A(n) is a device with sp used to create electricity.	pinning blades that is
<b>7.</b> Organisms swimming a flow of water.	are moving with the
<b>8.</b> A company that performs a public service is called a(n)	
<b>9.</b> The states that energy a high-quality to low-quality forms.	always changes from
<b>10.</b> Cooling a building by blocking sunlight from it is an of	ı example

## Chapter 7 Vocabulary Review, continued

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

		Word Bank		
	carpool	passive solar heating	upstream	
	core	peat	wind farm	
	natural gas	sulfur oxide		
	nuclear power plant	tide		
11	. A fuel known as	is	a combination of several	
12	when peoplereduce energy use.	, they	share rides with others to	
13	ocean's surface.	is the regular	rise and fall of the	
14	• Partly decomposed pla	nt material found in wetla	ands is called	
15	. The center of a nuclear	reactor is known as the _	·	
16	converted to electricity	is a facility wh	nere nuclear energy is	
17	One of the air pollutar	its produced by burning fo	ossil fuels is	
18	wind turbines.	contains man	y connected groups of	
19	If an organism swims flow of the water.		, it is moving against the	
20	. When a building is hea	ted directly by sunlight, it	is called	•

Chapter 7

46

#### Chapter 7 Vocabulary Review, continued

**Directions** Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

## **Word Bank** electrons protons neutrons subatomic particles nucleus Atoms are made up of three smaller particles called **21.** \_\_\_\_\_\_\_. The center of an atom contains positively charged **22.** and **23.** \_\_\_\_\_ that have no charge. These two types of particles make up the core, or **24.** \_\_\_\_\_ of the atom. The atom's core is surrounded by negatively charged particles called **25.** \_\_\_\_\_\_. **Word Bank** coal strip mining tunnel mining deposits mountaintop removal A solid fossil fuel called **26.** \_\_\_\_\_\_ is made of almost pure carbon. It comes from decomposed plants that were under pressure for millions of years. This fossil fuel is found in underground layers, called **27.** \_\_\_\_\_\_, between layers of rock. There are several ways to collect this material. In **28.** the surface layer of rock is removed and the fuel is taken out. Another

entire top of a mountain is removed with dynamite.

form of extraction is **29.** \_\_\_\_\_\_, or pit mining.

A third type of mining is **30.** \_\_\_\_\_\_, where the

#### Chapter 7 Vocabulary Review, continued

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **31.** A (turbine, fuel cell, utility) is a device for converting chemicals to electricity.
- **32.** The percentage of useful work from a certain amount of energy is (power usage, conservation, energy efficiency).
- **33.** When sunlight is used to replace artificial light, it is known as (photovoltaics, solar collectors, daylighting).
- **34.** A (radioactive, passive, hybrid) element gives off energy while it is changing into another substance.
- **35.** Naturally flowing water that is heated inside the earth is called a (geyser, tide, hot spring).
- **36.** A gas called (methane, crude oil, sulfur oxide) is released by decaying organisms.
- **37.** Energy produced directly by sunlight with no extra machinery is called (hydroelectricity, passive solar energy, active solar systems).
- **38.** To (transport, vibrate, transform) is to change from one form to another.
- **39.** A thick liquid fossil fuel called (crude oil, methane, coal) is found in underground deposits.
- **40.** Fresh air is supplied though (ventilation, tailings, photovoltaics).
- **41.** A (generator, geothermal, chain reaction) is a reaction that causes itself to continue.
- **42.** Burning fossil fuels can release a pollutant called (petroleum, natural gas, nitrogen oxide).
- **43.** The energy of motion is called (kinetic energy, potential energy, solar energy).
- **44.** Devices called (fuel cells, active solar systems, turbines) collect and deliver solar energy.
- **45.** Plant material that is burned for fuel is known as (tailings, biomass, natural gas).
- **46.** Uranium is processed in a (fuel cell, nuclear power plant, uranium mill).
- **47.** A machine that generates electricity is called a (uranium mill, nuclear reactor, generator).

Chapter 7

#### Chapter 7 Vocabulary Review, continued

- **48.** Tiny algae called (neutrons, diatoms, deposits) were found in the ocean millions of years ago.
- **49.** Nuclear fission takes place in a (turbine, nuclear reactor, strip mine).
- **50.** The process of producing energy by splitting atoms is called (radioactive decay, nuclear fission, kinetic energy).
- **51.** Material that prevents heat or cold from escaping into or out of a space is called (petroleum, peat, insulation).
- **52.** Resources that are (nonrenewable, renewable, recycled) are only available in limited supply.
- **53.** Barriers built across a river to control the flow of water are called (dams, fish ladders, control rods).
- **54.** A (hybrid vehicle, wind turbine, generator) runs on gasoline and an electric motor.
- **55.** Nonradioactive rods used to control nuclear fission are called (cores, control rods, fuel rods).

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A		Column B
56.	to move from one place to another	4	aesthetics
57.	movement back and forth	В	fish ladder
58.	series of pools that allow lish to move		geyser
	upstream over a dam	)	transport
59.	jet of hot liquid or steam that shoots out of a crack in Earth's crust	E	vibration
60.	visual appearance		

## Chapter 7 Vocabulary Review, continued

	Column A		Column B
61.	wasteful	F	geothermal
62.	a principle	G	inefficient
63.	heat from inside the earth	Н	law
64.	tower with moving blades that converts	1	petroleum
	wind movement to energy	J	wind turbine
65.	thick liquid fossil fuel found underground; crude oil		
66.	energy stored in an object	K	hydropower
67.	energy from moving water	L	impurity
68.	energy from the sun	M	mandated
69.	pollution or contamination	N	potential energy
70.	enforced by law	0	solar energy
71.	radioactive element used in nuclear fission	P	compact fluorescents
72.	device that captures solar energy and	Q	energy conservation
	converts it to heat	R	photovoltaics
73.	energy-efficient lightbulbs	S	solar collector
74.	using and wasting less energy	T	uranium
75.	solar cells; convert solar energy to electricity		
	Unscramble the word or words in parentheses to ach sentence. Write the letter on the line.		
<b>76.</b> A(n) _ known	is the amount of a natural reserve to be available. (verseer)	our	ce
<b>77.</b> When	something is, it wastes less e		

## Chapter 7 Vocabulary Review, continued

<b>78</b> .	Debris produced by mining is call (glisnait)	ed
<b>79</b> .	A(n) distributes energy to a region. (we	-
<b>80</b> .	A(n) fission. (lefu odr)	is a radioactive rod used in nuclear
81.	Cancer of the blood cells is called	(ealkumei)
27	To pollute an area is to	it (tamicontena)

## **Global Water Resources**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

		Word Ba	nk				
aquifer	rechai	rge zone	recreation	seeps			
depleted	rechai	rge	scarcity	well			
<b>1.</b> Underground lay a(n)			or gravel that trap	water make			
<b>2.</b> The refill an aquifer.		is	an area that allo	ws water to			
<b>3.</b> People can access	groun	dwater by d	igging a deep hol	le called a(n)			
<b>4.</b> Groundwater star or soaks, into the			ow that				
<b>5.</b> Water from rain, an aquifer.	<b>5.</b> Water from rain, snow, and streams helps an aquifer.						
	<b>6.</b> Surface water is often used for, like swimming, boating, or fishing.						
	<b>7.</b> Lack, or, of water is a huge problem in many parts of the world.						
<b>8.</b> Overuse of water	from a	quifers can	cause them to be	ecome			
<b>Directions</b> When you how they are differen <b>9.</b> aquifer and well	t. Com	pare and co	ntrast the pairs o	C			
•	-	,					
	В	How they a	re different:				
<b>10.</b> watershed and water table	<b>A</b> I	How they ar	e alike:				
	В	How they ar	e different:				
	-						

## **Using and Managing Water Resources**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

		Word Bank		
	diverted	irrigate	reservoir	
	drought	landscaping		
	industry	purification		
1.	Cleaning by sep	parating out pollutant	s or impurities is cal	leo
2.	Farmers may _ supplied water.		their crops us	sin
3.	The course of a	river can be		_ to
4.	During a		there is very little	ra
5.		is	a company that mal	κes
	particular good			
		auty of a piece of land	•	
<b>7</b> .		is	a natural or artificia	.1 la
	used for water s	storage.		
Dir	<b>ections</b> Answer	each question on the	lines. Use complete	se
8.	What is a sprin	kler system?	_	
		· 		_
9.	Why is a sprink	tler system a type of in	rrigation?	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	201 0/000111 W 0/P 0 01 11		
10	How does water	r treatment make wat	er safe for drinking?	
	110W does wate.	r treatment make wat	er sare for driffking.	

## **Water Pollution and Treatment**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

			Word Bank				
	eutrophication	(	organic waste	. •			
	fertilizers	1	runoff	plant			
	herbicides	9	sewage				
1.	In		, too mai	ny nutrients cause excessive	e algae growth.		
2.	Human wastewater	call	ed	is a source of	of pollution.		
3.	Farmers supplemen	ıt pl	ants with organic	and inorganic nutrients ca	alled		
			·				
4.	Chemicals that kill	wee	ds are	·			
5.	Sewage is cleaned in	ıa_		before being rel	leased.		
6.	Wastes from living	orga	nisms are called		_·		
<b>7</b> .	Rain or melted snow	w th	at washes off of r	oads and other surfaces is _			
<ul> <li>Directions When you compare and contrast, you tell how things are alike and how they are different. Compare and contrast the pairs of words below.</li> <li>8. point-source pollution and nonpoint-source</li> </ul>							
	pollution <b>B</b>		How they are different:				
9.	thermal pollution and radioactive	A	How they are ali	ke:			
	waste	В	How they are dif	fferent:			
10.	cholera and hepatitis	A	How they are ali	ke:			
		В	How they are dif	fferent:			

# **Protecting Water Resources**

Name

Dir	rections Answer each question on the lines. Use complete sentences.	
1.	How can people preserve water resources for the future?	
2.	In addition to laws, what else might protect water resources?	
3.	How can nonnative crops be harmful to the environment?	
4.	How are industries reducing water use?	
5.	Why does watering the lawn at night help to conserve water?	
	rections Unscramble the word or words in parentheses to applete each sentence. Write the answer on the line.	
6.	Water is delivered in drops directly to the plant's roots using(prid iiirrgnato)	
7.	A type of landscaping that uses native and drought-tolerant plants is(siignpxacre)	·
8.	Wastewater that does not contain animals waste is called (ryga trawe)	
9.	Products that are designed to save water are described as	(wlo-wlof)
10	To protect water, laws ban the use of deadly (eediesnest)	

# **Chapter 8 Vocabulary Review**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A		Column B
1.	to soak into	A	cholera
2.	play or amusement	В	divert
3.	intestinal infection caused by contaminated	C	organic waste
	water or food	D	recreation
4.	to turn from one course to another	E	seep
5.	waste from living organisms		
6.	heat added to water or air by humans	F	bioaccumulation
	that causes ecological changes	G	impermeable
<b>7.</b>	not allowing water to flow through	Н	landscaping
8.	when toxic compounds accumulate	ı	permeable
	through the food chain	J	thermal pollution
<b>9</b> .	improving the natural beauty of land		
10.	allowing water to flow through		
11.	a disease that damages the liver	K	deplete
12.	human-generated wastewater	L	dysentery
13.	to use up	M	hepatitus
14.	waste contaminated with radioactive materials	N	radioactive waste
15.	an intestinal infection with severe diarrhea	0	sewage

## Chapter 8 Vocabulary Review, continued

Dire	ections Write the letter	r of the answer that be	st completes each sente	nce.
16.	Organic and inorganic  A fertilizers	nutrients that help pla  B hormones	ants grow are known as  C herbicides	<b>D</b> steroids
17.	A pond or lake for the <b>A</b> watershed	storage of water is known <b>B</b> reservoir	own as a  C well	<b>D</b> water table
18.	A(n) showerhed	ead is designed to use l  B low-flow	ess water.  C irrigation	<b>D</b> seep
19.	Sewage is cleaned in a( <b>A</b> aquifer <b>B</b> watershed	n) before bein	g released into surface  C sprinkler system  D sewage treatment p	
20.	A(n) is an area <b>A</b> well	underground that cor <b>B</b> sinkhole	ntains groundwater.  C aquifer	<b>D</b> watershed
21.	The process of  A drip irrigation  B root tap	delivers water directly	to plant roots.  C xeriscaping  D deep irrigation	
22.	A type of landscaping <b>A</b> eutrophication		ive and drought-tolerate  c greenhousing	_
23.	Water that is visible ab  A groundwater	_		<b>D</b> water table
	A is a nonlivin  A fertilizer			
25.	An unusually long period	iod of little rainfall is c <b>B</b> depletion	alled a  C drought	<b>D</b> flood
<b>26</b> .	Chemicals that are use  A pesticides	d to kill weeds are calle <b>B</b> herbicides	ed  C organic waste	<b>D</b> fertilizer

## Chapter 8 Vocabulary Review, continued

<b>27</b> .	A(n) is a device that sprays water from above the ground.					
	<b>A</b> sprinkler system	<b>C</b> water sprayer				
	<b>B</b> aquifer	<b>D</b> runoff				
28.	In a, water travels downward to beco	me part of an aquifer.				
	A recharge zone	<b>C</b> reservoir				
	<b>B</b> well	<b>D</b> sprinkler system				
<b>29</b> .	Rain or melted snow that flows over land into	o bodies of water is called				
	<b>A</b> groundwater	<b>C</b> gray water				
	<b>B</b> runoff	<b>D</b> surface water				
<b>30</b> .	Most water goes through to remove l	harmful chemicals and make it safe to drink.				
	<b>A</b> runoff	<b>C</b> water treatment				
	<b>B</b> eutrophication	<b>D</b> drip irrigation				
31.	A is a hole that is dug or drilled to ge	et water from the earth.				
	<b>A</b> sinkhole	<b>c</b> well				
	<b>B</b> surface water	<b>D</b> watershed				
<b>32</b> .	Wastewater that does not contain animal was	ste and can be reused is called				
	<b>A</b> sewage	<b>C</b> runoff				
	<b>B</b> organic waste	<b>D</b> gray water				
33.	Viruses and bacteria are examples of and cause disease.	, which can contaminate water				
	<b>A</b> invertebrates	<b>C</b> pathogens				
	<b>B</b> cells	<b>D</b> sewage				

eutrophication

industry

### Chapter 8 Vocabulary Review, continued

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

	irrigate	scarcity	
	nonpoint-source pollution	water table	
	point-source pollution	watershed	
			_
54.	The top of the groundwater layer is	s known as the	·
	Waterpollution and impurities.	_ is cleaning it by separatin	g out
<b>36</b> .	When plant growth and oxygen depletion		cause excessive
<b>37</b> .	Pollution that comes from a partic	ular source is called	·
88.	Water that seeps into an aquifer wi	ill	,
<b>39</b> .	In a(n)same body of water.	, all the precipitation dra	ins into the
<b>10</b> .	Many farmers crops with water.	their land to supp	ply their
	A(n) kind of good or service.	is the making and selling o	of a particular
12.	Pollution that cannot be traced to	a specific source is called _	
<b>13</b> .	When there is asomething that is needed.	, there is a short	age of

purification

recharge

## Air Pollution and Living Things

*Directions* Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

	Word Bank	
cancer	heart	respiratory
emissions	polluted	vehicles
factories	pollution	

Air pollution affects human health in many ways. It can cause

1	problems and lung <b>2.</b> _	
Asthma and emphyse	ema are two types of <b>3.</b>	, or
breathing, ailments.	Both are made worse by breathing	4
air. More than 600,00	00 people a year die earlier than the	ey normally would because of
air <b>5.</b>	To tackle air pollut	ion at the source, experts try to
reduce <b>6.</b>	, or releases of p	ollutants, from
7	, <b>8.</b>	, and other sources.

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- 9. Bits of solids and liquids in the air are called (droplets, particulate matter, materials).
- **10.** Materials in the air called (particles, chemicals, air pollutants) harm living things and nonliving materials.
- **11.** Pollution in the air is (air pollution, precipitation, humidity).
- **12.** Pollutants that are released directly into the air by human or natural resources are (secondary air pollutants, primary air pollutants, particulates).
- **13.** A harmful substance that forms from a reaction between other chemicals in the air is a (secondary air pollutant, primary air pollutant, precipitation).
- **14.** Pollution that is found and measured in outdoor air is (primary air pollution, secondary air pollution, outdoor air pollution).
- **15.** Pollution that is found indoors, called (indoor air pollution, primary air pollution, secondary air pollution), includes items like cleaning products and insect spray.

# Smog, Heat, Noise, and Light

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

Column A	Column B
<b>1.</b> increased temperatures in areas of human development and activity	<ul><li>A catalytic converter</li><li>B industrial smog</li></ul>
<b>2.</b> a harmful gas found in photochemical smog that can cause headaches and breathing difficulties	<b>C</b> light pollution
<b>3.</b> a pollutant associated with industry that is produced by burning coal and oil	<ul><li>D noise pollution</li><li>E ozone</li></ul>
<b>4.</b> bothersome brightness or glare caused by human-made lights	<b>F</b> urban heat island effect
<b>5.</b> noise that interrupts daily life	
<b>6.</b> a device designed to reduce emissions of air pollutants from vehicle exhaust	
<ul><li>Directions Answer each question on the lines. Use complete sentences</li><li>7. Where is photochemical smog most common?</li></ul>	•
<b>8.</b> What happens when nitrogen oxides react with sunlight?	
<b>9.</b> What are three health problems caused by ozone?	
<b>10.</b> What causes the urban heat island effect?	

**Workbook Activity** 

Chapter 9, Lesson 3

### **Acid Rain**

**Directions** Complete the science terms by writing the missing letters. Use the clues to help you.

1. precipitation with high levels of acidity



**2.** another term for acid rain

С	d

d	p	s	t		n

Date

3. solid acid deposition that settles on trees and buildings



**4.** acid pollutants that reach the earth in precipitation

W	t
---	---

d	p	S	t		n

**5.** a group of two or more atoms that acts like one atom

r d c	1
-------	---

**6.** neither an acid nor a base

n	t	r		1
---	---	---	--	---

7. devices that remove sulfur from industrial smokestack emissions

s	С	r		b	b		r	s
---	---	---	--	---	---	--	---	---

**Directions** Decide whether each item describes an acid or a base. Write *A* for acid and *B* for base.

**8.** contains the hydroxyl (OH) radical

**\_\_\_\_\_ 9.** a substance having a pH below 7

**\_\_\_\_\_10.** a substance having a pH above 7

Chapter 9, Lesson 4

# **Climate Change**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

	Word	Bank	
	carbon sequestration	greenhouse effect	
	carbon sink	greenhouse gases	
	climate change		
1.	The change in Earth's clim	ate due to global warming i	s called
2.	Gases in the atmosphere ca against the earth.	alled	help trap heat
3.	The trapped energy from the su	warms the atmosphun.	ere because of
4.	The long-term storage of cunderground is called	carbon dioxide in forests, so	ils, oceans, and
<b>5</b> .	A	is a place where carbon	n accumulates
	and is stored.		
Dir	ections Answer each quest	ion on the lines. Use compl	ete sentences.
6.	How do worldwide increas	ses in temperatures affect Ea	arth's climate?
_			
7.	What has caused carbon d	ioxide levels to increase by a	almost one-third?
8.	What is the main cause of	greenhouse gases?	
0	How can countries raduce	thair amissions of grapha	aco gasas?
7.	from carr countries reduce	their elilissions of greelillo	use gases?
10.	What are two ways to incre	ease carbon sequestration?	

# **Chapter 9 Vocabulary Review**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

	acid rain	catalytic converter	noise pollution
	air pollutants	emission	smog
	carbon sequestration	greenhouse gases	
	carbon sink	neutral	
1.	A haze that forms as a res		ry emissions
2.	Gases in the atmosphere are called		e earth
3.	A substance that is	h	nas a pH of 7.
4.	A(n)is stored.	is a place wher	e carbon accumulates and
<b>5</b> .	The long-term storage of	carbon dioxide is known	n as
6.	Materials in the air that d		ing things are known as
7.	A(n) of air pollutants from veh		gned to reduce emissions
8.	When noise interrupts da	aily life, it is called	·
9.	A(n) into the environment.	is the release of	f a substance
10.	Precipitation with high le	evels of acidity is known	as

## Chapter 9 Vocabulary Review, continued

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A		Column B
11.	harmful pollutants that are formed from chemical reactions in the air		acid deposition base
12.	increased temperatures in urban areas caused by human activities	C	radical
14.	group of two or more atoms that acts like one atom precipitation with high levels of acidity bitter, slippery substance that contains hydroxyl radicals		secondary air pollutants urban heat island effect
16	the result of pollutants produced primarily by burning gasoline		air pollution dry deposition
18. 19	acidic pollutants that reach the earth as precipitation pollution in the air the scale used to measure whether a substance is an acid or base acidic pollutants that settle on the earth as solids	н	pH photochemical smog wet deposition
	the warming of the atmosphere because of trapped heat from the sun		greenhouse effect indoor air pollution
23.	pollution that is formed and measured in outdoor air related to breathing a haze produced by burning coal and oil	N	industrial smog outdoor air pollution respiratory
25.	pollution found and measured indoors		

### Chapter 9 Vocabulary Review, continued

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **26.** A harmful gas called (carbon dioxide, methane, ozone) is found in photochemical smog.
- **27.** Devices that remove sulfur from industrial smokestack emissions are called (cleaners, scrubbers, purifiers).
- **28.** A(n) (acid, base, oxide) is a sour-tasting substance that reacts with metals to produce hydrogen.
- **29.** Bothersome brightness or glare from human-made lights is called (noise pollution, light pollution, glare pollution).
- **30.** Solid or liquid particles in the air are called (pollutant matter, vapor, particulate matter).
- **31.** A(n) (primary air pollutant, secondary air pollutant, indoor air pollutant) is a harmful chemical that enters the air directly.
- **32.** Global (pollution, deposition, climate change) is a change in the earth's climate associated with global warming.

Chapter 10, Lesson 1

# **Introducing Solid Waste**

<b>Directions</b> Write t	he letter of the answer th	nat best completes each ser	ntence.
	erials, called, inc scrap metal, and yard wa		
<b>A</b> slag	<b>B</b> sludge	<b>C</b> fly ash	<b>D</b> solid waste
<b>2.</b> The process of	how waste is created, col	llected, and disposed of is	called the
A solid waste	<b>B</b> smelting wast	te <b>C</b> waste stream	<b>D</b> fly ash
	so known as was ne environment.	te, can harm people,	
<b>A</b> household	<b>B</b> hazardous	<b>C</b> environmental	<b>D</b> synthetic
<ul><li>4. Waste that can</li><li>A biodegradal</li><li>B nonbiodegradal</li></ul>	ole	ng organisms is wa  C solid D synthetic	iste.
<ul><li><b>5.</b> Waste that is _</li><li><b>A</b> solid</li><li><b>B</b> hazardous</li></ul>	cannot be broken	down by living organisms  C synthetic  D nonbiodegradab	
	e the term from the Word answer on the line.	d Bank that completes each	n sentence
	Word Bank		
agricultural sol			
fly ash industrial solid	sludge waste		
<b>6.</b> Semisolid lefto	overs from sewage treatm	ent processes are called	
<b>7.</b> Waste ash, call electrical power		, comes from coal-	burning
<b>8.</b> Leftover waste	from making iron and o	ther metals is	·
	as istrial processes.	comes from manuf	acturing
<b>10.</b> Solid waste fro	m agriculture is	·	

Chapter 10, Lesson 2

## **Disposing of Solid Waste**

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **1.** A(n) (open dump, sanitary landfill, incinerator) is a site specifically created for disposing of solid waste on land.
- **2.** A metallic element that can damage living things is known as a (leachate, casing, heavy metal).
- **3.** The natural breakdown of organic matter, called (aerobic decomposition, sanitation, land filling), requires water and oxygen.
- **4.** A facility called a(n) (landfill, incinerator, leachate) is a place where waste is burned.
- **5.** Contaminated water that leaks from a dump or landfill is called (slag, leachate, sludge).
- **6.** A(n) (sanitary landfill, incinerator, open dump) is a place where garbage is dumped without environmental controls.

**Directions** Answer each question on the lines. Use complete sentences.

7. State one advantage and one disadvantage of sanitary landfills.

8.	What are two disadvantages of using incinerators?
9.	How does the process of composting help the waste stream?
10.	What is the process of recycling designed to do?

liquid

Chapter 10, Lesson 3

## **Hazardous Waste**

canisters

*Directions* Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

**Word Bank** 

**EPA** 

	chemical	gas	PCBs		
	disposal	hazardous	solid		
Maı	ny of the product	s people use crea	te <b>1.</b>		waste.
Haz	zardous waste req	uires special met	hods of <b>2.</b>		
so t	hat it does less da	mage to the envi	ronment. Haz	ardous v	waste comes in many
diff	erent forms. It ca	n be a <b>3.</b>		,	4
or a	<b>5.</b>		It can be store	d in bar	rels or
<b>6.</b> _		Mos	t of the countr	y's haza	rdous waste is
gen	erated by the <b>7.</b> _		inc	dustry. A	At one time, toxic
8		were	used to make	paint an	d electrical equipment.
The	<b>9.</b>	(	oversees dispos	sal of all	toxic wastes.
			_		
Dir	<b>ections</b> Unscram	ible the word in j	parentheses to	comple	te each sentence.
10.	The organisms i (siuotcenif)	n		waste c	an cause diseases.
11.	Waste that is chemical action.		eats	or wear	s away material by
12.	Hazardous waste (baeltiign)	e that is		c	atches on fire easily.
13.	A by-product of (daoiartcevi)	nuclear reaction	s is		waste.
14.	Waste that can e waste. (caervite)		ff toxic fumes	is	
15.	Copper, mercury are toxic. (eyhva		ner		metals

Date

# **Controlling Solid Waste**

Directions	Answer each question on the lines. Use comple	ete sent	ences.
<b>1.</b> How w	ill an increase in the world's population affect	amount	es of waste?
<b>2.</b> What is	s integrated waste management designed to do	•	
<b>3.</b> What a	re the "three Rs" for waste prevention? Briefly	describ	e each one.
<b>4.</b> How do	oes buying products with minimal packaging h	elp the	environment?
	Match the items in Column A with those in Cotter of each correct answer on the line.	olumn I	3.
	Column A		Column B
5.	a dump designed specifically for	A	deep-well injection
	hazardous waste	В	integrated waste management
6.	a liquid that can dissolve other substances	C	organic compounds
<b>7.</b>	generating less waste	D	secure chemical landfill
8.	carbon-based molecules	E	solvent
<b>9</b> .	process where toxic liquids are pumped into underground cracks	F	source reduction
10.	combining many approaches to solving waste problems		

# **Chapter 10 Vocabulary Review**

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A		Column B
1.	a mineral that contains metal	A	biodegradable
2.	unstable waste that can explode or give	В	deep-well injection
	off toxic fumes	C	industrial solid waste
3.	waste from manufacturing and other	D	ore
	industrial processes	E	reactive waste
4.	able to be broken down by organisms		
5.	a process where toxic liquids are pumped into cracks in underground rock layers		
6.	where garbage is dumped without	F	heavy metal
	environmental controls		infectious waste
<b>7.</b>	a by-product of nuclear reactions	Н	open dump
8.	how waste is created, collected, and disposed of	ı	radioactive waste
9.	waste that can cause diseases	J	waste stream
10.	a metallic element that can damage living things		
11.	waste that can easily catch on fire	K	aerobic decomposition
12.	human-made	L	household hazardous waste
13.	generating less waste	M	ignitable waste
14.	the breakdown of organic matter that	N	source reduction
	requires water and oxygen	0	synthetic
15.	hazardous waste from households		

## Chapter 10 Vocabulary Review, continued

Dire	ections Write the lette	er of the answer that be	est completes each sent	ence.
16.	A is a liquid th	nat can dissolve other s	substances.	
	<b>A</b> solute	<b>B</b> dissolvent	<b>C</b> solution	<b>D</b> solvent
17.	The process of removi	ing metals from rocks t	through melting is call	ed
	<b>A</b> smelting	<b>B</b> mining	<b>C</b> recycling	<b>D</b> incinerating
18.	Toxic chemicals called	were once use	ed to make paint and o	ther industrial products.
	A DEET	<b>B</b> PCBs	<b>C</b> DDTs	<b>D</b> CFCs
19.	A(n) is a facili	ty where trash is burne	ed.	
	<b>A</b> oven	<b>B</b> smelter	<b>C</b> incinerator	<b>D</b> fireplace
20.	Discarded solid mater	ials are called		
	<b>A</b> biotic waste		<b>C</b> heavy metals	
	<b>B</b> solid waste		<b>D</b> synthetic waste	
21.	Semisolid waste called	is left over fro	om sewage treatment.	
	<b>A</b> fly ash	<b>B</b> slag	<b>C</b> leachate	<b>D</b> sludge
22.	Wastes that are	_ cannot be broken do	wn by living organism	s.
	<b>A</b> biodegradable		<b>C</b> radioactive	
	<b>B</b> hazardous		<b>D</b> nonbiodegradable	
23.	Contaminated water k	known as some	etimes leaks from landf	fills.
	<b>A</b> sludge	<b>B</b> leachate	<b>C</b> slag	<b>D</b> runoff
24.	Garbage produced by	homes, businesses, and	d institutions is known	as
	<b>A</b> agricultural solid w	vaste	<b>c</b> municipal solid wa	aste
	<b>B</b> industrial solid was	ste	<b>D</b> reactive waste	
25.	A is a site desi	gned for disposing of s	solid waste on land.	
	<b>A</b> sanitary landfill		<b>C</b> waste stream	
	<b>B</b> deep-well injection	l	<b>D</b> decomposition sit	e

## Chapter 10 Vocabulary Review, continued

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

	Word	Bank	
	agricultural solid waste corrosive fly ash	integrated waste management secure chemical landfill slag	
	hazardous waste		
26.	The waste from making iron or ot	ther metals is known as	·
27.	Waste ash calledelectrical power plants.	is released from coal-bur	ning
28.	The use of a combination of apprais	oaches to control solid waste is known	1
29.	A(n)hazardous waste.	is a dump designed specifically for	
<b>30</b> .	Toxic waste that can harm living t	hings and the environment is called _	
31.	Waste that ischemical action.	eats or wears away material b	ру
32.	Solid waste from agriculture is cal	lled	

Chapter 11, Lesson 1

# **Agriculture and the Environment**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

	Word Bank	
crop yield	feedlot	rangeland
dead zone	industrialized	soil erosion
domesticated	pasture	
draft animals	plantation	
An area of land used for	livestock grazing is a(r	
Large animals like horses called	_	ling farm equipment are
The process ofplace to another.	mo	oves soil from one
Animals bred for human		peing
A(n)living in it.	is an area of	the ocean without anything
A confined area where la	•	ck are raised together is a(n)
		called the
About 25 percent of Eart	· ·	
Large-scale agriculture is agriculture.	known as	
In tropical areas, large-sc		crops in a process called

Date

# **Protecting Soils**

<b>Directions</b> or AH for A	Label each of the following as <i>OH</i> for O horizon horizon.		
1.	the top layer of the soil		
2.	the second layer of the soil		
3.	contains newly fallen and partially decayed leaves	and	twigs
4.	made up of decaying organic matter and inorganic	c par	ticles
5.	also known as topsoil		
	Match the items in Column A with those in Columetter of each correct answer on the line.	nn B	
	Column A		Column B
6.	soil made up of clay, silt, and sand	A	contour farming
<b>7</b> .	the buildup of soil in aquatic ecosystems	В	loam
8.	planting rows of crops that curve around	C	porosity
	the contour of the land	D	shelterbelts
<b>9</b> .	rows of planted trees that reduce wind erosion	E	siltation
10.	the percentage of a volume of soil that is empty space		
11.	a layer of soil	F	bedrock
12.	plowing up the soil before seeds are planted	G	horizon
13.	solid layer of rock beneath soil and other	Н	parent material
	loose materials	- 1	tilling
14.	material from which soil first forms	J	weathering
15.	the process by which bedrock is broken down into smaller particles		

## **World Food Supply and Nutrition**

Name

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **1.** A (protein, carbohydrate, fat) is a sugar or starch that living things use for energy.
- **2.** A vitamin needed for health and growth is (iron, fat, vitamin C).
- **3.** The (Green Revolution, world food supply, famine) increased crop yields by developing new varieties of plants.
- **4.** A mineral that helps move oxygen through the bloodstream is (iron, vitamin C, calcium).
- **5.** The growth of bones depends on (fat, calcium, vitamin C).
- **6.** The (Green Revolution, Agricultural Revolution, world food supply) is the amount of food available for the world's population.
- **7.** A blood condition called (anemia, overnutrition, vitamin A deficiency) can result from lack of iron.
- **8.** Eating too many fats and sugars can result in (anemia, protein, overnutrition).
- **9.** A chemical called (protein, vitamin C, fat) stores large amounts of energy.

Dire	<ul> <li>Directions Write the letter of the answer that best completes each sentence.</li> <li>O. A is a chemical used by cells to grow and do work.  A fat</li></ul>			
10.	A is a chemica	l used by cells to grow	and do work.	
	<b>A</b> fat	<b>B</b> protein	<b>C</b> carbohydrate	<b>D</b> mineral
11.	Something isi	if it can be eaten safely.		
	<b>A</b> edible	<b>B</b> concentrated	<b>C</b> overnutrition	<b>D</b> distributed
12.	A is equal to 1	,000 calories.		
	<b>A</b> famine	<b>B</b> protein	<b>C</b> kilocalorie	<b>D</b> fat
13.	During a(n), l	arge numbers of peopl	e are hungry because o	f droughts or war.
	<b>A</b> famine	<b>B</b> Green Revolution	<b>C</b> overnutrition	<b>D</b> anemia
14.	Not consuming enoug	h fats, carbohydrates,	or proteins leads to	·
	<b>A</b> overnutrition	<b>B</b> famine	<b>C</b> hunger	<b>D</b> malnutrition
15.	A is a unit of h	neat needed to raise on	e gram of water one de	gree Celsius.
	A kilocalorie	<b>B</b> famine	C protein	<b>D</b> calorie

Chapter 11, Lesson 4

# **Sustainable Agriculture**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

	community-supported	industrialized agriculture	
	agriculture farmers market	organic farming	
	iai mers market	sustainable agriculture	
1	A(n)	is a place where local for	mare can call their produce
		is a place where local far	
		, produce is grown without	
3.	In	, members pay a farm for de	eliveries of
	fresh produce.		
4.	A way to produce food for cu generations is called	ırrent generations without dep 	oriving future
<b>5</b> .	-	raises a lot of	animals in a
	small amount of space.		
Dir	ections. A newar each question	n on the line. Use complete ser	ntances
	•	•	
6.	Name one advantage and one	e disadvantage of organic farm	iing.
7	What concerns might farmer	rs consider when using a new p	pesticide?
7.	what concerns might farmer	is consider when using a new p	restretae:
8.	How do predator insects act	as natural pesticides?	
	-	-	
_		CC . 1 1	
9.	How does sun-grown coffee	affect local environments?	
10.	What is the goal of sustainab	le agriculture?	

**Workbook Activity** 

Chapter 11, Lesson 5

### **Fisheries**

**Directions** Complete the science terms by writing missing letters. Use the clues to help you.

**1.** Fish farming is also called \_\_\_\_\_.

	_	_	_				
0		_		1	+	r	۵
ΙЧ				1	ι	1	

**2.** Unwanted animals caught in fish nets are \_\_\_\_\_.

b	С	t	h
_			

**3.** A net that floats freely through the ocean is known as a \_\_\_\_\_.

d		f	t	n	t	_

**4.** A \_\_\_\_\_ is a large net dragged through the ocean by a boat.

t		w	1	n	t	

**5.** When fish are caught faster than they can reproduce, \_\_\_\_\_ occurs.

	v	r	f	S		n	
		1	-	3		11	

**Directions** Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

#### **Word Bank**

animals targeted environmental technologies species

Improved **6.** \_\_\_\_\_ have greatly increased fish

catches around the world. Unfortunately, these gains come with

**7.** \_\_\_\_\_ costs. For example, gill nets and longlines not only catch the **8.** \_\_\_\_\_ fish. They also catch fish of the

wrong **9.** \_\_\_\_\_\_. They even catch other types of

**10.** \_\_\_\_\_\_, such as turtles, dolphins, and whales.

# **Chapter 11 Vocabulary Review**

*Directions* Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

	anemia	feedlot		porosity	
	calorie	industrializ		siltation	
	draft animal	agricultur	e	trawl net	
	farmers market	overfish			
					1
1.	Large numbers of lives	stock are rais	sed togethe	er in a(n)	•
2.	When people		, t	hey catch fish faster	r than they
	can reproduce.				
3.	The buildup of soil in	aquatic ecos	ystems is c	alled	·
4.	A(n)		is an anim	al used to pull	
	farm equipment.			•	
<b>5</b> .	Local farmers sell their	produce at	a(n)		·
6.	A(n)		is a net tha	at is dragged throug	gh
	the ocean.				
<b>7</b> .	The	(	of soil is pe	ercentage of its volu	ıme that is
	empty space.				
8.	A blood condition call	ed		can resul	t from
	a lack of iron.				
9.	A(n)		is the heat	needed to raise a g	gram of
	water one degree Celsi	us.			
10.	Large-scale agriculture	e is known as	S		_•

#### Chapter 11 Vocabulary Review, continued

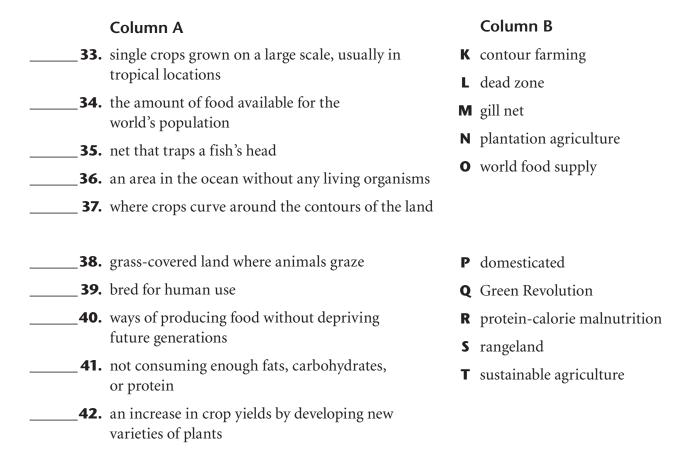
*Directions* Use the terms in the Word Bank to complete the paragraphs. Write the terms on the lines.

	Word Bank		
A horizon	horizons	parent material	
bedrock	O horizon	weathering	
Soil exists in several	lavers which are c	alled <b>11.</b>	J
	•	, wh	
leaves, twigs, and otl	ner organic matter.	The next layer of soil is	the
13	, other	rwise known as topsoil. I	Many of the
minerals found in so	il originated deep	below the topsoil. Most	soil is formed
from the breakdown	, or <b>14.</b>	, of la	rger pieces of
15	This	material often originate	s from a solid
layer below all of the	soil layers. This la	yer of solid rock is know	n as
16	·		
			٦
	Word Bank	<b>(</b>	
calcium	fats	proteins	
carbohydrates	iron	vitamin C	
In order to be health	y, people must hav	ve a well-balanced diet w	rith certain
components. People	e need three main	forms of foods in their d	iets. The first are
17	, whic	h are chemicals found in	n meat and meat
products. People also	o need to take in a	certain amount of	
18	, whic	ch store energy. The ener	gy that human
bodies need to funct	ion comes from 19	9	Sources
of these sugars and s	tarches include bro	eads, cereals, fruits, and	vegetables.

## Chapter 11 Vocabulary Review, continued

The three m	nain types of foods contain nutrients that help the	body	to function.
The minera	l <b>20.</b> is needed to car	ry oz	xygen
through the	e blood. Another important mineral is <b>21.</b>		,
which helps	s to build up bones, teeth, and muscles. An importa	ınt v	itamin
called <b>22.</b> _	helps to support health	h and	d
growth. If p	people do not consume enough of these essential nu	ıtrieı	nts, their
bodies cann	not function properly.		
	Match the items in Column A with those in Colurrect answer on the line.	nn B	. Write the letter
	Column A		Column B
23.	to plow soil before planting seeds	A	crop yield
24.	the size of a harvest from a particular crop	В	drift net
25.	a net that floats freely through the ocean	C	edible
26.	able to be eaten safely	D	longline
27.	a long cable with baited hooks every few meters	E	till
28.	land used for livestock grazing	F	bycatch
29.	too young to reproduce	G	community-supported
30.	rows of trees to reduce wind erosion of soil		agriculture
31.	unwanted fish	н .	immature
32.	where members pay to receive deliveries of fresh produce from a farm	J	pasture shelterbelts

#### Chapter 11 Vocabulary Review, continued



**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **43.** A soil called (loam, silt, bedrock) is best for growing crops.
- **44.** When produce is grown without using chemicals, it is called (plantation agriculture, organic farming, community-supported agriculture).
- **45.** A (drought, flood, famine) is when large numbers of people in an area are hungry due to a disaster or war.
- **46.** The movement of soil from one place to another is (soil depletion, soil erosion, overgrazing).
- **47.** Fish farming is called (aquaculture, fishery, overfishing).
- **48.** When people eat too many calories it is called (malnutrition, anemia, overnutrition).

#### Chapter 11 Vocabulary Review, continued

- **49.** A (megacalorie, kilocalorie, millicalorie) is 1,000 calories.
- **50.** In (contour farming, no-till farming, organic farming), the soil is left undisturbed until a new crop is planted.
- **51.** Farmers who produce (draft animals, loam, shade-grown coffee) do so without clearing tropical forests.
- **52.** In (contour farming, clear-cutting, weathering), all of the trees in a large area are harvested.

## **Major Threats to Biodiversity**

**Directions** The letters below stand for the five major reasons for the loss of biodiversity. On the lines, write what each letter stands for.

<b>1.</b> H	
<b>2.</b> I	
<b>3.</b> P	
<b>4.</b> P	
<b>5.</b> O	

Period

**Directions** Read each statement. Circle the answer that correctly completes each sentence.

- **6.** An organism brought to an area where it is not naturally found is called a(n) (native species, introduced species, found organism).
- **7.** When (wildlife trade, species introduction, habitat fragmentation) occurs, large areas of habitat are broken up into smaller areas.
- **8.** A(n) (acronym, regulation, fragmentation) is a word formed from the first letters of other words.
- **9.** Any sale of wildlife or wildlife products is known as (habitat fragmentation, introduced species, wildlife trade).
- **10.** A giant asteroid slamming into Earth would raise an enormous cloud of (trees, gas, dust).
- **11.** Scientists believe there have been (nine, five, six) mass extinctions in the past.
- **12.** Unlike extinctions in the past, (weather disturbances, ice flows, human activities) are the biggest cause of current extinctions.
- **13.** The biggest threat to biodiversity is (habitat loss, lack of food, greenhouse gases).
- **14.** Many types of (food, ecosystems, pollution) can cause problems for biodiversity.
- **15.** Some scientists estimate that the earth is currently losing more than (100,000, 5,000, 30,000) species a year.

# **Disappearing Habitat**

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

1.	Deforestation andcauses of habitat loss.	are two main	Word Bank
	Many North American forests are still being _ or developed.		development extinctions inbreeding
4.	Scientists estimate that more than 70 percent are caused by ha  The mating of related individuals is  Forests that have trees that are more than 150 are	abitat loss.	logged old-growth forests
Dir	ections Answer each question on the lines. Us	se complete sentences.	
6.	What are three types of development that cau	ise the loss of rain forests?	
7.	What can happen to species when their natura	al habitats are lost?	
8.	What area shelters more than one-third of Ear	rth's species?	
9.	How did the Aral Sea in Central Asia decrease	e in size?	
10.	How are some countries working to prevent h	nabitat loss?	
	·		

# **Introduced Species**

*Directions* Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

V	Word Bank		
economic	human		
ecosystem	predators		
exotic			
An introduced spec	ies is one that is introduced in	nto a new 1	
Introduced species	are also called <b>2</b>	or invasive species.	
These organisms do	not have <b>3.</b>	in their new homes.	
Their introduction	can cause <b>4.</b>	and environmental harm.	
Introduced species	can also harm <b>5.</b>	health.	
<b>7.</b> Why did people	e bring kudzu into the United	l States?	
, 1 1	O		
<b>8.</b> What problems	s did kudzu cause when it was	s introduced?	
<b>9.</b> What are two v	vays that nonnative species ca	n be accidentally introduced?	
<b>10.</b> What is the mo	ost serious threat of an introdu	uced species?	
•			

## Wildlife Trade

**Directions** Complete the chart. In the last column, write *E* for Ecological View, *U* for Utilitarian View, *R* for Recreational View, or *S* for Spiritual View.

Reasons for protecting biodiversity	View
Natural areas provide opportunities for outdoor activities.	1
Biodiversity provides many products.	2
Ecosystems and the services they provide are important.	3
All species have a purpose in life.	4

*Directions* Use the terms in the Word Bank to complete the paragraph. Write the terms on the lines.

The <b>5.</b>	is the largest importer of wildlife			
products. A growing amount of	f wildlife trade is <b>6</b>			
People are <b>7.</b>	, buying, and selling			
8	or threatened species. Illegal trade in wildlife			
has pushed many species to the	point of <b>9.</b>			
Rhinoceroses are hunted for their <b>10.</b> , which				
are used to make medicines. Tig	gers are hunted for their beautiful			
11	Elephants have been hunted for their			
valuable ivory <b>12.</b>	People who hunt wildlife			
illegally are called <b>13.</b>	When the			
14	_ for wildlife products is strong,			
prices rise. People are more will	ling to break the law when they will be			
15	_ <del>.</del>			

#### **Word Bank**

demand

endangered
extinction
fur
horns
hunting
illegal
poachers
tusks
United States

well paid

# **Protecting Biodiversity for the Future**

Name

Dire	ections Answer each question on the lines. Use complete sentences.
1.	What is the purpose of the Endangered Species Act?
2.	What is the purpose of ecological restoration?
3.	Why do people feel it is important to protect and restore the Everglades?
4.	What does CITES stand for?
5.	What is the goal of the Treaty on Biological Diversity?
	ections Unscramble the words in parentheses to complete each sentence. te the terms on the lines.
6.	Seed banks are large of seeds. (tcelcolnois)
7.	Many countries have laws that protect (vidboirseyit)
8.	Zoos, aquariums, and botanical gardens help threatened and endangered species. (creptto)
9.	Everglades National Park is a unique in southern Florida. (dwtenla)
10.	In almost every part of the United States, habitat is taking place. (aoroitntrse)

# **Chapter 12 Vocabulary Review**

<b>Directions</b> Write the let		nt best completes each	sentence.
		<b>c</b> incubator	<b>D</b> fish farm
<b>2.</b> A(n) is bround is bround foreign specimen	_		orally.  Decies <b>D</b> trade species
<b>3.</b> The acronym		major reasons for bio	
<ul><li>4. People with a(n)</li><li>A ecological view</li><li>B utilitarian view</li></ul>	believe that ever	ry living thing has a p  C recreational v  D spiritual view	riew
<ul><li>A habitat connecto</li><li>B patch links</li></ul>		tat are called  C tree belts  D wildlife corri	
	view want to pr	•	ause of beneficial products. <b>D</b> ecological
<b>Directions</b> Match the it Write the letter of each of			3.
Column A			Column B
<b>7.</b> buying or se	elling wildlife or wild	llife products	<b>A</b> acronym
<b>8.</b> a view that for outdoor	natural areas should activities	be preserved	<ul><li>B asteroid</li><li>C ecological view</li></ul>
<b>9.</b> a word form	ned from the first lett	ters of other words	<b>D</b> recreational view
<b>10.</b> a view that to preserve	biodiversity should b ecosystems	e protected	<b>E</b> wildlife trade
•	ve slammed into the	earth,	

#### Chapter 12 Vocabulary Review, continued

**Directions** Chose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

**Word Bank** 

captive breedi	ng	malaria	
ecological rest	oration	poacher	
habitat fragme	entation	seed bank	
inbreeding	;	sustainable development	
<b>12.</b> The mating	of related ind	lividuals is	·
<b>13.</b> Seeds of end	dangered spec	ies are stored in a(n)	
-	of repairing of	damage to an ecosystem	
<b>15.</b> A(n)		is someone who h	unts wildlife illegally.
0.1	ants or anima	ls in zoos, aquariums, or bo 	otanical gardens
<b>17.</b> Insmaller piec		, large habitats are br	oken into
<b>18.</b> Mosquitoes	can be carrie	rs of	·
<b>19.</b> The Treaty of	on Biological	Diversity supports	·

# **Understanding Sustainability**

<b>Directions</b> Write the	letter of the answer tha	t best completes each	sentence.	
<b>1.</b> The people of Eas	ter Island are an examp	ole of a(n) so	ciety.	
<b>A</b> sustainable	<b>B</b> threatened	<b>C</b> poor	<b>D</b> unsustainal	ble
<b>2.</b> To means	to express something a	is a number.		
<b>A</b> subtract	<b>B</b> conserve	<b>C</b> sustain	<b>D</b> quantify	
<b>3.</b> A global plan for s	sustainability developed	d at the Earth Summ	it is known as	_•
<b>A</b> the Clean Wate	er Act	<b>C</b> Agenda 21		
<b>B</b> the Endangered	d Species Act	<b>D</b> the Environr	nental Plan	
<b>4.</b> A(n) is a n	neasure of change.			
<b>A</b> indicator	<b>B</b> democracy	<b>C</b> plan	<b>D</b> treaty	
<b>5.</b> Environmental	can help people u	ınderstand and value	e a sustainable way of	life.
<b>A</b> industry	<b>B</b> education	<b>C</b> technology	<b>D</b> profits	
	ndvantage over the inha		•	Word Bank
				biodiversity
•	nformation to create a repeople are their <b>7.</b>		_	ecological
	vironmental values. The			economic
	e main goals of <b>8.</b>			preserving
	health			records
	n			social
11	The second	goal is <b>12.</b>		stability
health, which includes	economic 13.		or growth.	success
The third goal is <b>14.</b> _		health. This in	cludes supporting	sustainability
basic human needs as	well as sustainable prac	tices in the commur	nity. Different	values
indicators can be used	to determine people's	15		
in meeting these three	goals.			

Date

## A Sustainable Global Economy

**Directions** Match the items in Column A with those in Column B. Write the letter of each correct answer on the line.

	Column A				Column
	<b>1.</b> a measure of progress t environmental factors	that includes economic, social, an	ıd		economi
	<b>2.</b> an expert in the field of	f economics		В	environn economi
	<b>3.</b> the total value of all goods and services produced in a country in a given period of time		ountry		financial genuine
	<b>4.</b> an economist who works to account for nature's value in economics			E	gross dor product
	<b>5.</b> wealth that is used to g	enerate more wealth		F	natural c
	<b>6.</b> natural resources that p	produce a flow of goods and serv	ices	G	sustainal
	<b>7.</b> an economy that contr	ibutes to the sustainability of the	earth		economy
	of	nability, the GDP is not a very good- -· elop new			Wo
<b>10.</b> The GPI also includes things like as gains.				inc	
11.	. Some experts say the new indic	cators are too	·		me
12.	<b>12.</b> One goal of sustainability is to achieve economic				pay
13.	<b>13.</b> The GDP does not reflect all social and problems.			str sul	
14.	Defenders of the new economic	c indicators say that they nany factors the GDP ignores.			vol
15.	Although people value the part to	es of the natural world, they are notes for them.	ot required		

#### ı B

- ist
- nental
- capital
- progress
- mestic
- capital
- ble global

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## **Sustainable Communities**

Name

**Directions** Choose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

1.	Traveling in cars leads to increased air pollution, traffic, and road building.	Word Bank aquatic biking		
2.	Walking and are two good options for reducing pollution and automobile traffic.			
	In Devil's Lake, North Dakota, wastewater is treated in a facility that contains plants.	community commuter train		
	A(n) is ridden by people who live in the suburbs and work in the city.  A(n) is a place and the	congestion environment fossil		
<b>J</b> .	people and other organisms that live there.			
6.	Wherever people live, they create a built			
7.	Sprawl can lead to more travel, using more fuels and other natural resources.			
8.	Low-density, unplanned suburban development is	. Word Bank		
9.	Communities that surround cities are known as	public transportation		
10.	Buses and subways are forms of	sprawl		
11.	Some communities support more renewable forms of energy by building farms.	suburbs sustainable		
12.	A(n) is built around the ideas of sustainability.	community urban growth boundary		
13.	A line around a city past which no new development can occur is known as a(n)	wind		
Dir	rections Answer each question on the lines. Use complete sentences.			
14.	How do city buildings help peregrine falcons?	_		
15.	How are jobs part of a sustainable community?	-		
		-		

Government, Science, Business, and Citizens

**Directions** Read each statement. Circle the answer that correctly completes each statement.

- **1.** One of the most important actions you can take to express your views is (working, voting, leaving).
- **2.** Volunteer work, such as (citizen science projects, composting, industry), helps researchers solve real-world problems.
- **3.** In (citizen science projects, politics, corporate social responsibility), businesses contribute to a cleaner environment.
- **4.** A (research project, community resource, regulatory agency) enforces laws and regulations.
- **5.** A plan of action for political issues is a (policy, regulation, law).
- **6.** A rule enforced by a government agency is referred to as a (policy, regulation, business).
- **7.** By making more environmentally friendly consumer choices, you can have a (negative, positive, corporate) impact on the environment.
- **8.** The EPA helps (fund, protect, enforce) environmental laws and regulations.
- **9.** Scientists provide important information to (lawmakers, criminals, architects) so that they can make informed decisions.
- **10.** Many car companies are making (bigger, hybrid, smaller) cars that get much better gas mileage.
- **11.** Rachel Carson helped create awareness about the problems with (weather, floods, pesticides).
- **12.** Products with a lot of (weight, packaging, chemicals) increase the amount of solid waste.
- **13.** People can get involved in environmental activities such as creating trails and getting rid of (ugly, large, nonnative) plants.
- **14.** In a (democracy, city, republic), voting is an important right and responsibility.
- **15.** Corporations know that many (companies, consumers, industries) are buying with the environment in mind.

# **Chapter 13 Vocabulary Review**

**Directions** Chose the term from the Word Bank that completes each sentence correctly. Write the answer on the line.

Word Bank			
citizen science	projects	policy	
commuter train		regulation	
_		urban growth boundary	
genuine progre	ss indicator		
<b>1.</b> A(n)		_ is a rule enforced by a govern	ment agency.
<b>2.</b> The role of bus	siness in helping so	ociety and the environment is _	·
<b>3.</b> Theenvironmental		_ includes economic, social, and	
<b>4.</b> New developm	ent around a city of	cannot occur past the	·
<b>5.</b> A(n)		_ is a plan of action for politica	l issues.
<b>6.</b> Inreal-world que		volunteers work with scientists	to answer
1		the authorite to the aite mean wid	0.2(n)
7. reopie wilo tra	iver regularly moni	the suburbs to the city may rid	e a(11)
<b>Directions</b> Match Write the letter of 6		mn A with those in Column B.	
Colun			Column B
		ds and services in a country	<b>A</b> environmental economist
<b>9.</b> a com	munity built arour	nd the idea of sustainability	<b>B</b> financial capital
<b>10.</b> buses and subways		<b>c</b> gross domestic product	
<b>11.</b> wealth	<b>11.</b> wealth that is used to generate more wealth		<b>D</b> natural capital
<b>12.</b> an eco	<b>12.</b> an economist who works to demonstrate nature's		<b>E</b> public transportation
value i	n economics		<b>F</b> sustainable community
<b>13.</b> natura and se	_	oduce a flow of goods	<b>G</b> sustainable global economy
<b>14.</b> an eco	•	utes to the sustainability	

## Chapter 13 Vocabulary Review, continued

	ntence. Write the answer on the lin	words in parentnesis to complete each ne.
15.	<b>5.</b> A(n)	_ is a measure of change. (nicdatori)
	<b>5.</b> Communities that surround cities as	
	economics. (monicotes)	is an expert in the field of
	<b>3.</b> Low-density, unplanned suburba is (	-
	as a number. (faqituyn)	something is to express it
	<b>).</b> A(n)laws and regulations. (rotagyrelu	_ is a government agency that enforces