Name	Class	Date	

Skills Worksheet

Active Reading

Section: How We Use Land

Read the passage below and answer the questions that follow.

We use land for many purposes, including farming, mining, building cities and highways, and recreation. Land cover is what you find on a patch of land, and it often depends on how the land is used. For example, land cover might be a forest, a field of grain, or a parking lot. There are different types of land cover and different human uses for each cover type.

Land that is covered mainly with buildings and roads is called **urban** land. For the purposes of determining land use and residence trends, the U.S. Census Bureau defines an urban area as an area that contains 2,500 or more people and usually has a governing body, such as a city council. Any population not classified as urban is considered rural. Land that contains relatively few people and large areas of open space are **rural** areas. Most land provides one or more resources that humans consume. These resources include wood in forests, crops in farmland, and mineral resources.



IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about the main idea.

Read each question and write the answer in the space provided.

. LIST HITC	e examples o	of land cover.	2		
				s'	,
. According contain?	ng to the U.S.	. Census Bure	au, how many	y people m	ust an urban ar
. What els	e must an ur	ban area have	?		-
* .	0 -				
	ree consuma	ble resources	that land may	provide.	
. Name th	ice consuma				

Name	Class	Date
Active Reading continued		
8		1 (8
VOCABULARY DEVELOPMENT		
Read each question and write the	e answer in the spac	e provided.
6. Rural areas contain large area	as of	and
people		
7. Urban areas are covered with	ı	, and
, and co	ontain	people.
RECOGNIZING SIMILARITIES A	ND DIFFERENCES	
One reading skill is the ability to r phrases, ideas, or things. This is se	•	
Read each question and write the	answer in the space	e provided.
8. How is a population determine	ned to be rural instea	ad of urban?
		
9. How does land use differ bety	ween urban and rura	d populations?
	-	* F
y 9		
		1 1
RECOGNIZING CAUSE AND EFF		
One reading skill is the ability to		l effect.
In the space provided, write the leterm or phrase.		
a. land use		
b. land cover		
c. land resource		
10. field of grain	15.	recreation
11. mining	16.	forest .
12. wood	17.	minerals
13. farming	18.	food crop
14. parking lot	19.	building cities and highways

Name	Class	Date	Table gr
		Dute	

Skills Worksheet

Active Reading

Section: Urban Land Use

Read the passage below and answer the questions that follow.

Environmental conditions in the center of a city are different from those of the surrounding countryside. Cities both generate and trap more heat. The increased temperature in the city is called a heat island. Heat is generated by the infrastructure that makes a city run. Roads and buildings absorb more heat than vegetation does. They also retain heat longer. Atlanta, Georgia, is an example of a city that has a significant heat island.

Scientists are beginning to see that heat islands can affect local weather patterns. Hot air rises over a city, cooling as it rises, and eventually produces rain clouds. In Atlanta and many other cities. increased rainfall is a side effect of the heat island. The heat-island effect may be moderated by planting trees for shade and by installing rooftops that reflect rather than retain heat.

IDENTIFYING MAIN IDEAS



One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about the main idea.

1.	Authors often include a main idea in one sentence of a passage. In the space below, write the sentence that you think best summarizes the main idea of this passage.
2.	Why does the author mention Atlanta, Georgia?
	Scientists use conditional words such as <i>many</i> , <i>sometimes</i> , <i>could</i> , and <i>might</i> when they are writing a statement of probability rather than of fact. What conditional word does this author use? Which sentence is it in?
4.	What does this conditional word suggest about the statement in which it is used?

Name	Class	Date
Active Reading continued	1	
VOCABULARY DEVELOP	MENT	
W.5 = 55 55	write the answer in the space p	rovided
	that causes increased tempera	
J. What is the condition	mai causes mercusea tempera	sources in a city cancer.
	ns "within" or "below." A <i>struc</i> ation to define the <i>infrastructi</i>	
,		
RECOGNIZING SIMILARI	TIES AND DIFFERENCES	
<u> </u>	lity to recognize similarities and his is sometimes known as con	
Read each question and w	vrite the answer in the space p	rovided.
7. How is temperature in rural areas?	urban areas different from te	mperature in surrounding
8. How might the weather countryside?	er be different in the city than	it is in the surrounding
DECOCNIZING CALICE A	ND FFFFCT	•
RECOGNIZING CAUSE A		foot
	oility to recognize cause and ef	
	write the answer in the space processed temporature in a city	5
9. What is the result of in	ncreased temperature in a city	:
10. Explain how heat can	affect a city's weather.	
11. What can city dweller	s do to counteract the heat-isla	and effect?

Name	Class	Date



Active Reading

Section: Land Management and Conservation

Read the passage below and answer the questions that follow.

People use enormous amounts of wood. The worldwide average is 1,800 cm³ of wood used per person each day. However, on average, each person in the United States uses about 3.5 times this amount. This is the equivalent of each person in the United States cutting down a tree that is 30 m tall every year. About 1.5 billion people in developing countries depend on firewood as their main source of fuel.

The timber industry classifies forest lands into three categories—virgin forest, which is forest that has never been cut; native forest, which is forest that is planted and managed; and tree farms, which are areas where trees are planted in rows and harvested like other crops. The two most widely used methods of harvesting trees are clear-cutting and selective cutting. *Clear-cutting* is the process of removing all of the trees from an area of land. Clear-cutting large areas destroys wildlife habitat and causes soil erosion. The main alternative is selective cutting, which is usually practiced on smaller areas owned by individuals. *Selective cutting* is the process of cutting and removing only middle-aged or mature trees. Selective cutting is more expensive than clear-cutting, but selective cutting is usually much less destructive.

IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about the main idea.

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

1. How many	people in developing countries rely on firewood for fuel?
a. 30 millio	
b. 3.5 billio	d. 1.5 million
2. How much a. 3.5 cm ³	wood does the average person (worldwide) use per day? c. 30 m
b. 1,800 cm	d. 1.5 m
3. How much per day?	wood does the average person in the United States use
a. 1,800 cm	
b. 5,400 cm	d. 1,050 m

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Name	Class	Date
Active Reading continued		
Active Reading commercial		
OCABULARY DEVELOPMENT		
	atter of the description	n that host matches the
n the space provided, write the l	etter of the description	n that best matches the
erm or phrase.		
4. clear-cutting		planted and managed
5. virgin forest	b. forest that has c. the process of	cutting and removing only
6. selective cutting	middle-aged or	r mature trees
10.00	d. the process of area of land	removing all trees from an
7. tree farms		ees are planted in rows and
8. native forest	harvested like	
RECOGNIZING SIMILARITIES A	ND DIFFERENCES	
		and differences between two
One reading skill is the ability to otherses, ideas, or things. This is s	recognize similarines a	comparing and contrasting
ohrases, ideas, or things. This is s	confermes known as c	oniparing and contrastang.
Read each question and write th	e answer in the space	provided.
9. What comparison does the a		
the United States uses?	Kill Z	A Section 1
		d colorting outting?
10. What are the similarities bet	ween clear-cutting an	d selective cutting:
11. What are the differences bet	ween clear-cutting an	nd selective cutting?
		1
12. What are the advantages and	d disadvantages of cle	ear-cutting versus selective
cutting?		
v		
		1 , 1 ⁶ ,
		i i

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Skills Worksheet		»	~ 1~- 1/S
Adina Dandina			X .

Section: Feeding the World

Active keading

Read the passage below and answer the questions that follow.

Between 1950 and 1970, Mexico increased its production of wheat eight-fold and India doubled its production of rice. Worldwide, increases in crop yields resulted from the use of new crop varieties and the application of modern agricultural techniques. These changes were called the *green revolution*. Since the 1950s, the green revolution has changed the lives of millions of people.

However, the green revolution also had some negative effects. Most new varieties of grain produce large yields only if they receive large amounts of water, fertilizer, and pesticides. In addition, the machinery, irrigation, and chemicals required by new crop varieties can degrade the soil if they are not used properly. As a result of the overuse of fertilizers and pesticides, yields from green revolution crops are falling in many areas. Grain production in the United States has decreased since 1990, partly because the amount of water used for irrigation has decreased during the same period.

IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about main ideas.

Write the letter of the term or phrase in the space provided, that best completes

each statement.	
1. Between 1950 and 1970, the	green revolution led to
a. increases in crop yields v	vorldwide.
b. the failure of new crop va	arieties.
c. water shortages in the Ur	
d. grain shortages in Mexico	(A)
2. <i>Irrigation</i> refers to	
a. varieties of crop yields.	c. fertilizer used to increase crop yields.
b. water used for crops.	d. machinery used to harvest crops.
9 . 9	ne problem with the green revolution is that o new techniques and machinery.

c. it led to widespread drought.

d. it led to the overuse of fertilizers and pesticides.

b. it did not last long enough to make a difference in grain production.

Jame	Class	Date
Active Reading continued		
8		
OCABULARY DEVELOPM	ENT	
ead the following question	n and write the answer in	the space provided.
4. The verb <i>yield</i> means "t information to define <i>cr</i>		a natural product." Use this
	a a 1	
ECOGNIZING SIMILARIT	IES AND DIFFERENCES	
hrases, ideas, or things. Thi	is is sometimes known as	s and differences between two comparing and contrasting.
ead each question and wri		
How did Mexico benefit?	t from the green revolution	on between 1950 and 1970?
6. How was agriculture aft before the green revolut		lifferent from agriculture
ECOGNIZING CAUSE ANI	D EFFECT	
ne reading skill is the abil	lity to recognize cause and	d effect.
ead each question and wri	ite the answer in the spac	e provided.
7. What do new varieties o	of grain require to produc	e large yields?
8. Why has grain production	on in the United States de	ecreased since 1990?
9. Why are yields from gre	een revolution crops fallin	ng in many areas?
0. What effect do the mach varieties have on soil?	hinery, irrigation, and che	micals required by new crop

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Skills Worksheet			
Active Reading	*		\bigcirc

Section: Crops and Soil

Read the passage below and answer the questions that follow.

In North America, insects eat about 13 percent of all crops. Crops in tropical climates suffer even greater insect damage because the insects grow and reproduce faster in these climates. In Kenya, for example, insects destroy more than 25 percent of the nation's crops. Worldwide, pests destroy about 33 percent of the world's potential food harvest.

Insects are one of several types of organisms considered pests. A *pest* is any organism that exists where you do not want it or that exists in large enough numbers to cause economic damage. Humans try to control populations of many types of pests, including plants, fungi, and microorganisms.

Wild plants often have more protection from pests than do crop plants. Wild plants grow throughout a landscape, so pests have a harder time finding and feeding on a specific plant. Crop plants, however, are usually grown together in large fields, which provide pests with a one-stop source of food. Wild plants are also protected from pests by a variety of pest predators that live on or near the plants. Some wild plants have also evolved defenses to many pests, such as poisonous chemicals that repel pests.

IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about main ideas.

Read each question and write the answer in the space provided.

Mode cach question and mile and an	one in the space process
1. What is a pest?	
2. List three types of pest population	ons that humans try to control.
Write the letter of the phrase in the s	space provided, that best answers the question
3. How much of the potenti	al food harvest do pests destroy worldwide?
a. 100 percent	c. 33 percent
b. 50 percent	d. 10 percent
	\$

Name	Class		Date
Active Reading continued	:		
RECOGNIZING SIMILARITIES And reading skill is the ability to ohrases, ideas, or things. This is Read each question and write the	recognize similarit sometimes known	ties and differ as comparing	g and contrasting.
4. How does insect damage to crops in North America?			
5. Why do crop plants have les	ss protection from	pests than de	o wild plants?
2 9			*
The following statements apply provided, write "WP" if the state ment applies to crop plants.	to either wild plar ement applies to w	nts or to crop vild plants or	plants. In the space "CP" if the state-
6. grow throughout a la	andscape		
7. provide pests with a	one-stop source o	of food	
8. have evolved defens	ses against many p	ests	
9. are protected from p	ests by pest predat	ors that live o	on or near the plants
10. grow together in lar	ge fields		
RECOGNIZING CAUSE AND E	FFECT		
One reading skill is the ability t			
Read each question and write t 11. Why do crops in tropical cl. America?			
12. Why do humans try to cont	trol pest population	ns?	
	-		
	<u> </u>		

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Skills Worksheet			1/2
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Section: Animals and Agriculture

Read the passage below and answer the questions that follow.

There are a number of different methods of aquaculture. The most common method is known as a fish farm. Fish farms generally consist of many individual ponds that each contain fish at a specific stage of development. Clean water is circulated through the ponds and brings in oxygen while sweeping away carbon dioxide and fecal wastes. The fish grow to maturity in the ponds and are then harvested.

Another type of aquaculture operation is known as a ranch. In this method, fish such as salmon are raised until they reach a certain age and are then released. The salmon, for example, migrate downstream to the ocean, where they live until adulthood. When they are mature, the fish return to their birthplace to reproduce. When they return, they are captured and harvested.

IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about main ideas.

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

1. What is the most common method	of aquaculture?
a. fish farming	c. capturing
b. ranching	d. migrating
 2. Each individual pond on a fish far	m contains
a. several different types of fish.	
b. one fish species and one of its p	oredators.
c. fish at a specific stage of develo	opment.
d. mature fish that are ready to be	harvested.
3. Where do salmon live until they re	ach a certain age, before adulthood?
a. on a fish farm	c. in a river
b. on a ranch	d. in the ocean
4. Where do salmon live after they le	ave their birthplace and until they
reach adulthood?	
a. in the ocean	c. downstream
b. in a pond	d. on a ranch
the state of the s	

Name	Class	Date
Active Reading continued		(
VOCABLII ABV BEVEL CRITERIO		,
VOCABULARY DEVELOPMENT		
Read the following question and 5. The prefix <i>aqua</i> - refers to "		
growth of living things." Use		
	# ## ## ## ## ## ## ## ## ## ## ## ## #	
In the space provided, write the	letter of the definition	that best matches the term.
6. migrate	a. gather is	n
7. circulate	b. reach ac	dulthood
8. harvest		thout obstruction
	d. move fr	om one place to another
9. mature		
SEQUENCING INFORMATION		
One reading skill is the ability to or events in the order in which	o sequence information they occur.	n, or to logically place items
Sequence the statements below harvesting salmon. Write "1" on front of the second step, and so	the line in front of the	
10. The salmon are relea	sed.	
11. The salmon return to	their birthplace.	
12. The salmon are raise	d on a ranch until they	reach a certain age.
13. The salmon are capta	ured and harvested.	
14. The salmon migrate	downstream to the oce	ean.
15. The salmon grow to	adulthood.	
RECOGNIZING CAUSE AND EF	FECT	
One reading skill is the ability to	recognize cause and	effect.
Read each question and write th	e answer in the space	provided.
16. How does circulating clean	water contribute to the	e operation of a fish farm?
<u> </u>		
17. Why do salmon return to the	eir birthplace after the	y mature?
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