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Name	Class	Date

Skills Worksheet



Active Reading

Ch. 12

Section: What Causes Air Pollution?

Read the passage below and answer the questions that follow.

Many industries and power plants that generate our electricity must burn fuel to get the energy they need. They usually burn fossil fuels. Burning fossil fuels releases huge quantities of sulfur dioxide and nitrogen oxide into the air. Power plants that produce electricity emit at least two-thirds of all sulfur dioxide and more than one-third of all nitrogen oxides that pollute the air.

Some industries also produce VOCs, which are chemical compounds that form toxic fumes. Some of the chemicals used in dry cleaning are sources of VOCs. Oil refineries, chemical manufacturing plants, furniture refinishers, and automobile repair shops also contribute to the VOCs in the air. When people use some of the products that contain VOCs, more VOCs are added to the air.

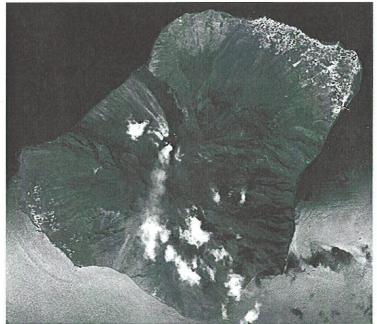
IDENTIFYING MAIN IDEAS



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.

In the space provided, write the letter of the term or phrase that best completes

each st	atement or best answers each question	n.
	1. What do most industries and powera. VOCsb. nitrogen oxide	er plants use for energy? c. sulfur dioxide d. fossil fuels
	2. What type of industry produces two pollutes the air?a. air conditioning manufacturersb. dry cleaners	
	3. Which of the following does <i>not</i> p (VOCs)?a. organic farmb. oil refinery	c. furniture refinisher d. automobile repair shop
	4. What happens when people use aa. They get very sick.b. Nothing happens.c. More VOCs are added to the aird. The VOCs return to the atmosp	r.



- 1. What is the name of this geological structure?
- 2. Describe what is on the northeast portion of the picture.
- 3. Describe what is on the west portion of the picture.
- 4. What is coming from the center of the picture?
- 5. Describe the southeastern portion of the picture.
- 6. Give three reasons the center of the volcano is not in the center of the island.

Name	Class	Date	T, W.
Active Reading continued			
5. Power plants that pr a. sulfur dioxide and b. sulfur dioxide and	nitrogen oxide. c. nitro		
ead each question and write th	e answer in the space	provided.	
6. What are VOCs?	•	*	
		*	
7. Reread the first four sentend think sulfur dioxide and nitr Explain your answer.	ces of this passage. Givogen oxides in the air	ven this information, do yare harmful or beneficial	70u ?
*			
			-
ECOGNIZING CAUSE AND EF	FECT		
ne reading skill is the ability to	recognize cause and	effect.	
ead each question and write th	e answer in the space	provided.	
8. Why do power plants emit s			
	`	9	
List four avamples of industr	riog that can be garren	of VOC- in the i	
List four examples of industr	res mai can de sources	s of vocs in the air.	
	*		
What percentage of pollutant	a do alactrical navyor		
. What percentage of pollutant	s do electricai power p	plants emit into the air?	
		*	
What can you do to halo I	and the emount of MOC	Value 4h 1 0	_
. What can you do to help redu	ice the amount of VOC	s in the air?	
	· · · · · · · · · · · · · · · · · · ·		



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	Class	Date
Name		

Skills Worksheet

Active Reading

Ch. 12

Section: Air, Noise, and Light Pollution

Read the passage below and answer the questions that follow.

Several minerals that form in long, thin fibers and that are valued for their strength and resistance to heat are called asbestos. Asbestos is primarily used as an insulator and as a fire retardant, and it was used extensively in building materials. The U.S. government banned the use of most asbestos products in the early 1970s. Exposure to asbestos in the air is dangerous. Asbestos fibers that are inhaled can cut and scar the lungs, which causes the disease asbestosis. Victims of the disease have more and more difficulty breathing and may eventually die of heart failure. Schools in the United States have taken this threat seriously. Billions of dollars have been spent to remove asbestos from school buildings.

IDENTIFYING MAIN IDEAS

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In the space provided, write the letter of the teleach statement or best answers each question.	
 1. Long, thin fibers made of minerals heat resistance are called a. insulation. b. fire retardant. 	c. asbestos.d. asbestosis.
a. water treatment facilities.b. chicken farms.	c. commercial food packaging.d. building materials.
 a. to control unpleasant smells by b. to insulate and to serve as a fir c. to filter air for those who have d. to repair walls in old buildings 	damage to their lungs
 4. Why isn't asbestos used much in a. The government banned the use b. Inflation has made it too expe c. A better form of insulation has d. The original manufacturer we 	the U.S. today? se of most asbestos products. nsive for most people. s been discovered.



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Name	Class Date
Active Reading continued	
VOCABULARY DEVELOPMENT Read each question and write the state of the s	The answer in the space provided.
	•
6. Define asbestosis.	
	,
SEQUENCING INFORMATION	
One reading skill is the ability to or events in the order in which	to sequence information, or to logically place item they occur.
	to show the steps of the disease asbestosis. Write rst step, "2" on the line in front of the second step
7. Asbestos fibers are in	nhaled.
8. A person is exposed	to asbestos in the air.
9. The person has an in	ncreasingly difficult time breathing.
10. Inhaled fibers cut an	nd scar the person's lungs.
11. The person may die	of heart failure.
12. The disease asbestos	sis develops.
RECOGNIZING CAUSE AND EF	FFECT
One reading skill is the ability to	to recognize cause and effect.
•	he answer in the space provided.
13. Why did people in the U.S. u	se asbestos in building materials before the 1970s?
14. Why would school officials sbuildings?	spend money to remove asbestos from school
Converight @ hy Holt Dinchout and Wington A	All wights recovered



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Name Date

Skills Worksheet



04.17

Section: Acid Precipitation

Read the passage below and answer the questions that follow.

Thousands of lakes throughout the world are victims of acid precipitation, which is also known as acid rain. Acid precipitation is precipitation such as rain, sleet, or snow that contains a high concentration of acids. When fossil fuels are burned, they release oxides of sulfur and nitrogen. When the oxides combine with water in the atmosphere, they form sulfuric acid and nitric acid, which fall as acid precipitation. This acidic water flows over and through the ground, and into lakes, rivers, and streams. Acid precipitation can kill living things, and can result in the decline or loss of some local animal and plant populations.

A **pH** (power of hydrogen) number is a measure of how acidic or basic a substance is. The lower the number on a pH scale, the more acidic a substance is; the higher a pH number is, the more basic a substance is. Each whole number on the pH scale indicates a tenfold change in acidity.

IDENTIFYING MAIN IDEAS

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

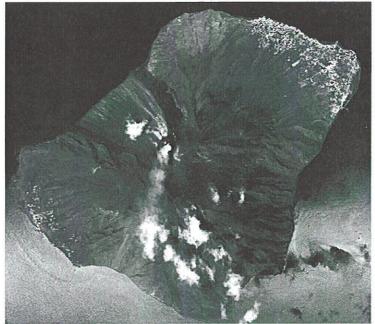
	1.	In which of these forms does acid Earth?	precipitation reach the surface of
		a. light	c. precipitation
		b. energy	d. oxides
	2.	What is harmed by acid precipitation	on?
le .		a. lakes, rivers, and streams	c. animal populations
		b. plant populations	d. all of the above
	3.	What does acid precipitation conta	in that is harmful to living things
		a. particulate matter	c. sulfuric acid and nitric acid
		b. fossil fuels	d. calcium carbonate

VOCABULARY DEVELOPMENT

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

4. What three forms can acid precipitation take?





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Name	Class Date
Active Reading co	
5. When an author the word or term to explain <i>pH</i> ?	puts something in parentheses, he or she is often explaining n that came just before. How does this author use parentheses
6. What does a pH	number tell you?
SEQUENCING INFO	RMATION
One reading skill is to or events in the order	the ability to sequence information, or to logically place items er in which they occur.
Sequence the statement the line in front of the	ents below to trace the path of acid precipitation. Write "1" on e first step, "2" on the line in front of the second step, and so on
7. The oxide	es combine with water in the atmosphere.
8. Acid prec	ipitation falls.
9. Sulfuric a	cid and nitric acid are formed.
10. The declin	ne or loss of plant and animal populations can occur.
11. Fossil fue	ls are burned, releasing sulfur and nitrogen oxides.
12. Acidic wa and strear	ter runs over and through the ground, and into lakes, rivers, ms.
and strear	
and strear RECOGNIZING SIMI One reading skill is the phrases, ideas, or thin	LARITIES AND DIFFERENCES ne ability to recognize similarities and differences between two ngs. This is sometimes known as comparing and contrasting.
and strear RECOGNIZING SIMI One reading skill is the phrases, ideas, or thin Read the question an	LARITIES AND DIFFERENCES ne ability to recognize similarities and differences between two
and strear RECOGNIZING SIMI One reading skill is the phrases, ideas, or thin Read the question and 13. What does it mean	LARITIES AND DIFFERENCES The ability to recognize similarities and differences between two larges. This is sometimes known as comparing and contrasting. The definition of the space provided. The when something has a high pH level? a low pH level?
and strear RECOGNIZING SIMI One reading skill is the phrases, ideas, or thin Read the question and 13. What does it means the company of the phrases in the	LARITIES AND DIFFERENCES The ability to recognize similarities and differences between two larges. This is sometimes known as comparing and contrasting. The definition of the space provided. The when something has a high pH level? a low pH level?
and strear RECOGNIZING SIMI One reading skill is the phrases, ideas, or thin Read the question and 13. What does it mean RECOGNIZING CAUSTONE reading skill is the Read each question and stream and s	LARITIES AND DIFFERENCES The ability to recognize similarities and differences between two larges. This is sometimes known as comparing and contrasting. The definition of the space provided. The when something has a high pH level? a low pH level? The space provided is a low pH level?