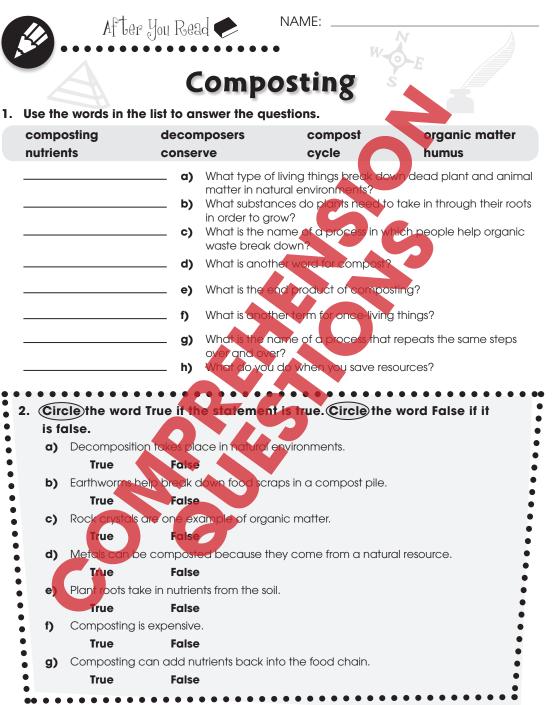
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NΑ	ME: Before You Read
	Composting
1.	Imagine that you left a banana peel outside. What do you think would happen to it? What would it look like after a month?
2.	Use a dictionary to look up the terms NUTRIENT and ORGANIC MATTER. Write the definitions on the lines below.
	a) The definition of nutrient is:
	b) The definition of organic matter is
~	
}	3. Think of five things that you threw away in the past day or two that were organic matter Describe those things on the lines below.
}	1)
}	3)
}	4)
}	5)
© (CLASSROOM COMPLETE PRESS 7 Waste Management: Prevention, Recycling & Conservation CCP5765-4



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NAME:





Composting

How does composting help the environment?

omposting helps conserve resources. A lot of energy is used to run landfills. By composting, people can send less organic matter to landfills. Composting breaks down organic matter without any added energy.

Composting also helps conserve soil. Compost, or humus, is an important part of soil. It contains most of the nutrients in soil, an keeps the soil light and airy. Plants must take in nutrients in order

to grow. Insects and plant roots must have air spaces in soil in er to survive.

You may have learned that nutrients cycle through the environment. Nutrients that are taken in by plant roots pass to animals that eat those plants. Then, to animals that eat other animals. In nature, nutrients are returned to the soil when dead plants and animals are broken down by decomposers. But, if we place our food scraps in andfill, the nutrients are taken out of the food chain. They are no longer available to plants However, if we compost our scraps and use the compost to grow plants in a garden, we once again return those nutrients to the food chain.



Describe how composting helps conserve energy.

How does composting save money?

Composting also saves money, Landfills cost money to operate. Money is needed to buy machines and pay workers. Waste management companies usually charge people for the amount of waste the pick up at homes and bring to a landfill. By composting food scraps and trimmings from your yard, you can save money by reducing the amount of waste you send to the landfill.

Large companies and institutions can often save a lot of money by composting waste. Grocery store chains, restaurants, schools, prisons, fairgrounds, and amusement parks are among the groups that compost their organic waste. Many of these groups save tens or even hundreds of thousands of dollars each year by composting.

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NAME:

After You Read



Composting

3. E	xplain how	composting	can	save bot	n money	and	resources	5.
-------------	------------	------------	-----	----------	---------	-----	-----------	----

4. Explain why compost is good for growing garden plant

Extension & Application

5. Help your family to begin composting

Step 1: Learn more about composting. Contact your local waste management company and ask them if they have any composting programs.

Step 2: Determine whether indoor or outdoor composting would be better for your family. Research specific composting methods on the Internet or using your

- library resources. Be sure to find out:

 How to set up an indoor or outdoor compost pile
- to help food break down quickly in your compost The steps should tal pile
- The equipment you would need for an indoor or outdoor pile
 How to care for your compost pile
- Any additions you should make to your compost

Uses for your finished compost

Step 3: Estimate how much money your family might save by composting. Find out how much your family pays for waste removal. Ask your waste management company if people pay less money if they produce less waste. Also figure out how much money you might save by using compost to fertilize your house or garden plants.

Step 4: Design a brochure to give your family the information they need to start composting. Be sure to include all of the information from Steps 1 to 3 in your brochure.

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Classroom Composting

For this activity you will set up a system for composting food scraps and other matter in your classroom. (Be sure to get your teacher's permission first.) If you outdoor space or a vegetable garden, you might choose to set up an outdoor compost pile. Otherwise, you can choose an indoor composting system, such as a worm bir

Part A

Research your composting system. You may use Internet or library sources to find out more about how to compost. Call your local waste management company or local government's environmental department to ask if they offer composting programs or information.

If you want to do an OUTDOOR compost pile, find out the following information:

- What is the best place to put a compost pile? How much room does it need? How far away from structures should it be? Should it be in a covered area or out in the open? Should it be in the sun or shade?
- How should you begin your pile? Will you need to dig a hole, or cover the ground with anything?
- What is the importance of air in your compost pile? What is the importance of heat? How
- do you maintain the right amount of heat and air in your pile? What types of organic matter can be put in your pile? How should you layer the different types of organic matter?
- Should you add anything to your compost pile? What do you need to do to maintain your pile?

If you want to do an INDOOR compost pile, find out the following information:

- What is a **worm bin**, and where can you get one?
- How do you begin composting in a worm bin? What do you need to add?
- What types of organic matter can be put in your worm bin? How much material can your worm bin handle?
- What do you need to do to maintain your worm bin?

Also find out how to know when your compost is finished, and what you can do with it.

Part B

Set up your compost system. Give a presentation to the class to introduce your system and explain how to use it. Be sure everyone understands what they may and may not place in it. Setup a task chart for any maintenance tasks that must be done over time. Have fun

CHALLENGE! As your system gets going, why not help other classes begin their own?







After You Read NAME: _______ Comprehension Quiz



Part A

Circle the word True if the statement is true. Circle the word False if it is false.



1) Nonrenewable resources are replaced by natural Earth processes faster than people can use them up.

True **False**

- 2) Metals, wood, and plastic are all made with resources from
 - True **False**
- 3) At a recycling facility, plastic bottles are washed and filled with new products.
 - True
- An apple core is an example of organic matter,
- True **False** 5) Sewage treatment makes water safe to date
- bottles that have been sent to 6) Recycled water comes from unopena a recycling facility.

True **False**

a major cause of air pollution. 7) Automobiles that run on gasoline of

True **False**

y to use as many natural resources as possible.

True

Part B

Put a check mark (/) next to the answer that is most correct.

- 1) Which item could you plate on a compost pil
 - alass iar
 - banana peel
 - newspaper
- 3) Which substance can cause smog?

A bauxite

- 0

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- В benzene
- carbon ozone

SUBTOTAL: /12

D cooling machines in factories

2) Which of these is NOT a use for

A drinking

4) Which source of energy is

A solar

B wind

c petroleum oil running water

B watering plants

c restoring wetlands

recycled water?

nonrenewable?

0

NAME:

After You Read



Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

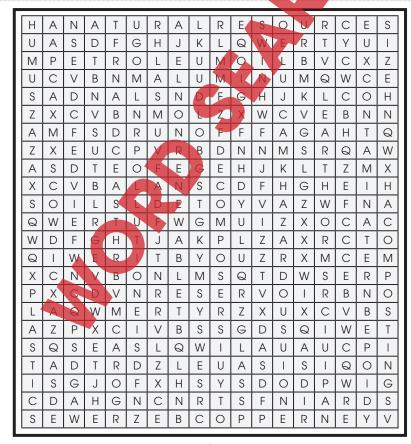
......

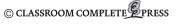
natural resources toxic metal copper reservoir paper nonrenewable windmills petroleum oil composting glass waste

pollution

decomposers land stone humus fuel soil plastic earthw

runoff zardous contaminate drain sewer aluminum





11

Major Sources of Air Pollution



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Fossil-fuel-burning Power







After t	Jou Read	
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NAME:

Composting

1. Use the words in the list to answer the questions.

composting nutrients	decom conser	posers ve	compost cycle	organic matter humus	
	b)	matter in natural environments?What substances do plants need to take in through their root in order to grow?What is the name of a process in which people help organic waste break down?			
	c)				
	d)				
	e)	What is another term for once-living things?What is the name of a process that repeats the same ste over and over?			
	f)			gs?	
	g)			·	
	h)	What do you do when you save resources?			

2. Circle the word True if the statement is true. Circle the word False if it is false.

a) Decomposition takes place in natural environments.

True False b) Earthworms help break down food scraps in a compost pile. True False

True False

d) Metals can be composted because they come from a natural resource.

True

False

e) Plant roots take in nutrients from the soil.

True

False

f) Composting is expensive.

True

False

g) Composting can add nutrients back into the food chain.

True

False





a) decomposers Answers will vary It can save money because there is less waste to send to the **b)** nutrients landfill. It can save resources because 12 no energy is used to c) composting break down organic waste. d) humus e) compost Compost contains all of the nutrients f) organic matter released when the g) cycle once-living matter Answers will vary was broken down. h) conserve 13 2. Answers will vary a) True b) True SV Enswers will vary ESV ESV d) True e) True Answers will vary **False**

15

(11)