

Contents



TEACHER GUIDE

- Assessment Rubric 4
- How Is Our Resource Organized? 5
- Bloom’s Taxonomy for Reading Comprehension 6
- Vocabulary 6



STUDENT HANDOUTS

- Reading Comprehension

1. Conservation	4
2. Reduce and Reuse	4
3. Recycling	4
4. Composting	4
5. Fresh Water Resources	4
6. Conserving Fresh Water	4
7. Clean Air Resources	4

- 8. Sustainable Living 7
- Hands-on Activities 11
- Crossword 15
- Word Search 16
- Comprehension Quiz 17



EASY MARKING™ ANSWER KEY 19

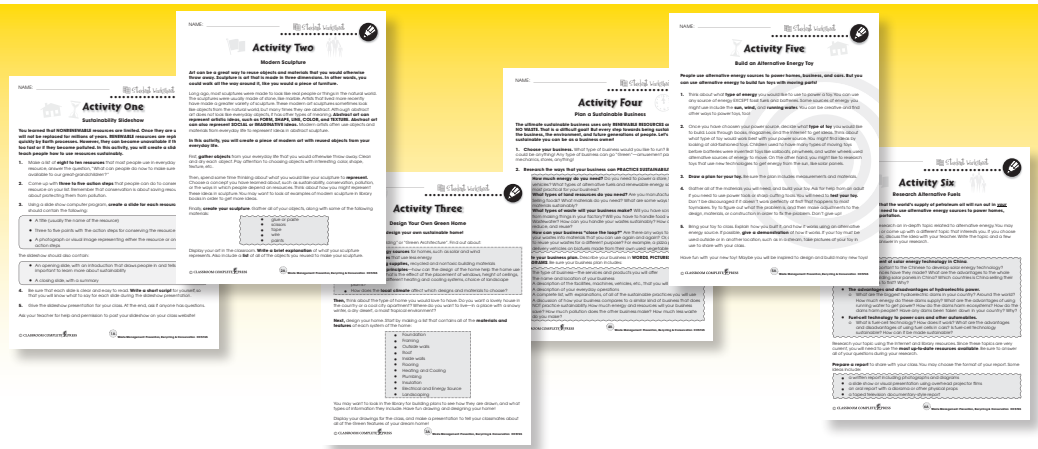
MINI POSTERS 21

FREE!

6 Bonus Activities!

3 EASY STEPS to receive your 6 Bonus Activities!

- Go to our website:
www.classroomcompletepress.com/bonus
- Enter item CC5765
- Enter pass code CC5765D





Sustainable Living



1. Have you ever heard of the terms "Green building" or "Green business"? What do you think the word "Green" means in these terms?

2. Fossil fuels are burned to make electricity. Think about all of the ways you use electricity in your home. On the lines below, write **seven** things in your home that use electricity.

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

3. a) Use a dictionary to look up the word ALTERNATIVE. Write the definition on the lines below.

The definition of **alternative** is:

b) What do you think is the meaning of the term "alternative fuel?"



Sustainable Living

What are sustainable buildings?

Some people choose to use **sustainability** as a goal in designing buildings and running households. The goal of sustainable living is to use as few resources and produce as little waste as possible. Sustainable buildings, also called green buildings, are designed with these goals in mind. Green buildings often use:



- sources of electricity that do not use fossil fuel burning
- building materials that are **nontoxic**
- systems to catch rainwater and use it for watering gardens
- recycled materials



Describe the goal of sustainable living.

What are sustainable businesses?

Businesses can also practice sustainability. Laws require most businesses to take some steps to conserve resources. For example, factories are not allowed to dump toxic waste into the environment. However, some business leaders are choosing to run their businesses with the model of sustainability.

For some businesses, sustainability means recycling all materials and creating as little waste as possible. Some businesses choose to run stores and factories using renewable energy sources like solar and wind power. Businesses that transport goods can practice sustainability by choosing to run their trucks on alternative fuels.

Alternative fuels do not use fossil fuels, so they create less pollution. They are often made from plant products, and so are renewable.

Sustainable businesses are sometimes called "Green" businesses. More and more, business leaders are discovering that going "Green" can save them money as well as conserve resources for the future and protect the environment. When you choose to buy products or services from a Green business, you are also helping save resources and the environment.



Sustainable Living



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

rainwater	nontoxic	wind	fossil fuels
alternative fuels	Green business	plant products	

- _____ a) Which source of energy causes air pollution when burned?
- _____ b) What is another term for a sustainable business?
- _____ c) What can sustainable businesses use to power trucks instead of gasoline?
- _____ d) What can sustainable homes catch to use for watering gardens?
- _____ e) Which type of building materials do not have substances that harm people or other living things?
- _____ f) Which source of power is renewable?
- _____ g) What can be used to make alternative fuels to power automobiles?

2. Circle the sources of electricity that a sustainable business might use to power their stores.

oil burning furnaces	solar panels	gasoline generators	windmills
----------------------	--------------	---------------------	-----------

3. Underline the goals of sustainable living.

use more petroleum oil	create less waste	recycle more materials
create less pollution	use more fresh water	spend more money



Sustainable Living

4. Explain how using recycled products in a home can help sustainability.

5. Explain why Green buildings and Green businesses look for sources of electricity that do not use fossil fuel burning.

Extension & Application

6. Create a Green business guide!

By choosing to buy goods and services from Green businesses, people can help reduce pollution, preserve the environment, and conserve natural resources for the future. Help people in your community choose Green businesses by creating a Green business guide.

Step 1: Search the Internet for Green businesses. Look for businesses that have won environmental awards. Look for national Green business directories. **Keep a list** of the businesses you find. Look for the website address of the business. Then, look in your local phone book to see whether any of the businesses on your list have local stores. Write down their addresses and phone numbers. Check with your local chamber of commerce to find out whether they give Green business awards to small, local businesses, or whether they keep a directory of local Green businesses. Include any of these on your list.

Step 2: Look at how the **business pages** of your phone book are organized by categories. Sort the businesses on your list into similar categories to write your own guide. For each entry in your guide, be sure to include:

- The name of the business
- A description of the services or products they provide
- Contact information, including their website, and a local address and phone number if they have one

When you are finished, ask your teacher for help making copies of the guide to give to students, teachers, family and friends.

Classroom Composting

For this activity you will **set up a system for composting** food scraps and other organic matter in your classroom. (Be sure to get your teacher's permission first.) If your class has 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 bin.

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?

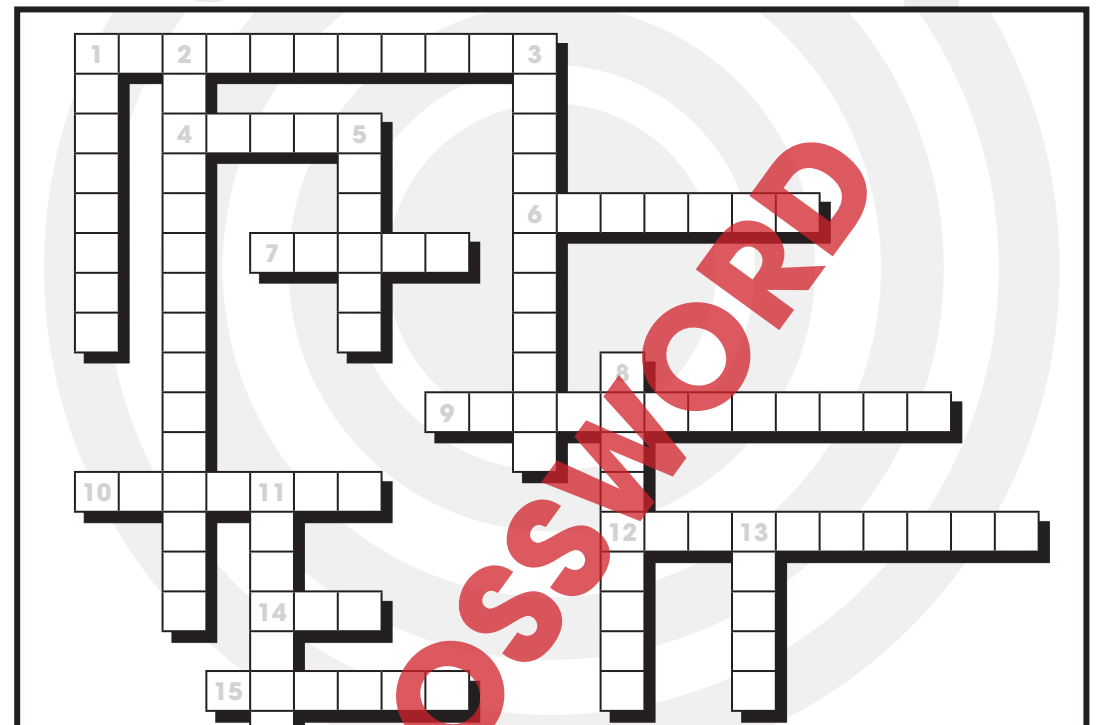
Also find out how to know when your compost is finished, and what you can do with it.

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. Set up a task chart for any maintenance tasks that must be done over time. **Have fun composting!**

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

Crossword Puzzle!



Across

1. recycling makes a resource _____
4. an important resource for drinking and washing _____
6. to turn a material from an old product into a new product _____
7. what you do when you refill a water bottle _____
9. the practice of saving and protecting natural resources _____
10. broken down organic matter _____
12. the water that flows down the drain _____
14. the gases in the atmosphere _____
15. how solids are taken out of wastewater _____

Down

1. a renewable resource that can power a home _____
2. what happens to wastewater _____
3. everything that surrounds you _____
5. to use less _____
8. a resource that is quickly replaced by nature _____
11. once-living _____
13. harmful _____

Comprehension Quiz

Part C

Answer the questions in complete sentences.

1. Explain the difference between **renewable** and **nonrenewable** resources. Give examples of each. 4

2. Explain how **recycling** is a way to practice sustainability. 3

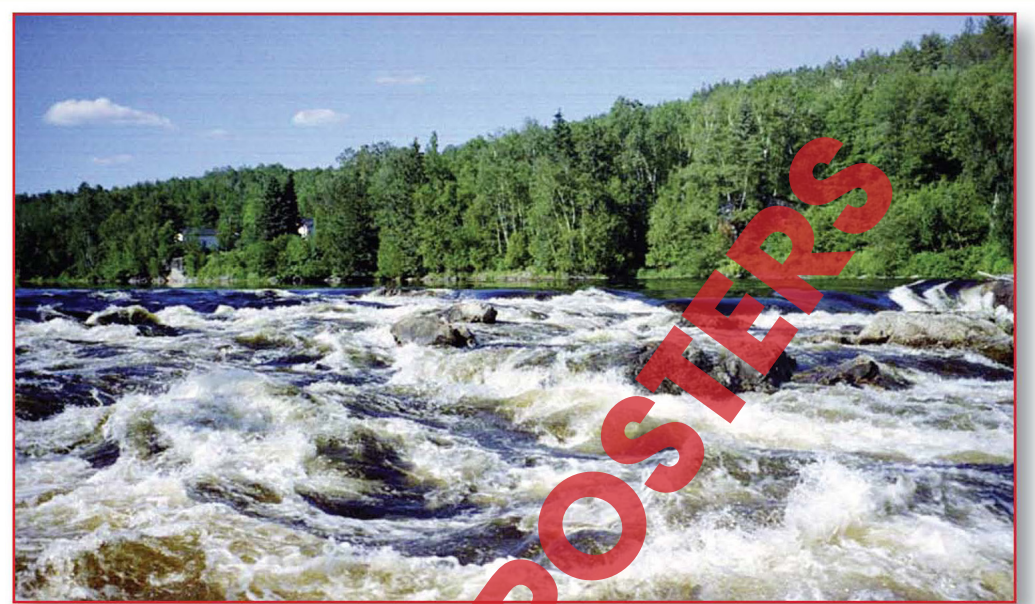
3. What is the difference between **water purification** and **sewage treatment**? 3

4. Give examples of how burning fossil fuels harms the environment and human health. 3

5. Explain how going "Green" can help a business save money and help the environment. 3

SUBTOTAL: /16

Fresh Water Resources



A stream



A reservoir

NAME: _____

After You Read 



Sustainable Living

4. Explain how using recycled products in a home can help sustainability.

5. Explain why Green buildings and Green businesses look for sources of electricity that do not use fossil fuel burning.

Extension & Application

6. Create a Green business guide!

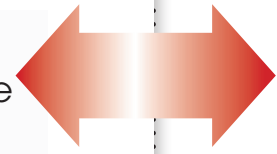
By choosing to buy goods and services from Green businesses, people can help reduce pollution, preserve the environment, and conserve natural resources for the future. Help people in your community choose Green businesses by creating a Green business guide.

Step 1: Search the Internet for Green businesses. Look for businesses that have won environmental awards. Look for national Green business directories. **Keep a list** of the businesses you find. Look for the website address of the business. Then, look in your local phone book to see whether any of the businesses on your list have local stores. Write down their addresses and phone numbers. Check with your local chamber of commerce to find out whether they give Green business awards to small, local businesses, or whether they keep a directory of local Green businesses. Include any of these on your list.

Step 2: Look at how the **business pages** of your phone book are organized by categories. Sort the businesses on your list into similar categories to write your own guide. For each entry in your guide, be sure to include:

- The name of the business
- A description of the services or products they provide
- Contact information, including their website, and a local address and phone number if they have one

When you are finished, ask your teacher for help making copies of the guide to give to students, teachers, family and friends.



EASY MARKING

ANSWER KEY

4.

Recycled products do not use new raw materials. They are sustainable because their materials can be recycled again and again.

Answers will vary

11

5.

Fossil fuels are not sustainable because they are nonrenewable. They also create a lot of pollution when burned.

Answers will vary

12

6.

Answers will vary

Answers will vary

13

Answers will vary

10

14

