

Save It Twice

Read how a community conserves energy and matter.

5.9.b “individuals and communities have means of conserving both energy and matter; and”

NAME _____

DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline each action that conserves energy. Circle each action that conserves matter, and write a small E or M beside the action so you can compare the two kinds of conservation.

A Library Saves Resources

- ① On Saturday, the Oak Street Library held a Repair and Save Day. Families brought lamps, backpacks, and small appliances that no longer worked. Volunteers checked loose wires, stitched torn straps, and replaced worn parts. Repairing an item lets people use the same materials longer. It also can prevent the energy needed to make and ship a replacement product.
- ② Inside the library, staff members saved electricity in several ways. They opened window shades for daylight and switched off unused lights in empty rooms. A power strip was turned off after the computer class ended, so devices would not keep using standby power. These choices reduce the amount of electrical energy the building needs from power plants.
- ③ At lunch, visitors used washable cups and plates instead of taking single-use ones. The library collected clean paper that had printing on only one side. Children used its blank side for notes, then placed it in recycling bins. Washing, reusing, and recycling materials can reduce trash and the need for new raw materials. The group learned that everyday choices can conserve matter as well as energy.

2

ANSWER WITH EVIDENCE

Use the passage

1

How can repairing an item conserve both matter and energy?

2

Name two actions in the library that conserve electrical energy.

3

What did the children do with paper that had printing on only one side? How did this conserve matter?

4

Which action stopped devices from using standby power?

3

YOUR TURN

Your own words

Make a three-action plan for your home, school, or community. Include at least one action that conserves energy and at least one action that conserves matter, then explain how each action helps.

ACTION	CONSERVES ENERGY OR MATTER?	HOW IT HELPS

PART 1 • READ AND MARK

Underline each action that conserves energy. Circle each action that conserves matter, and write a small E or M beside the action so you can compare the two kinds of conservation. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	How can repairing an item conserve both matter and energy?	It keeps the same materials in use longer and can avoid energy used to make and ship a replacement.
2	Name two actions in the library that conserve electrical energy.	Opening shades for daylight and switching off unused lights. Turning off the power strip after computer class is also correct.
3	What did the children do with paper that had printing on only one side? How did this conserve matter?	They used the blank side for notes and then recycled it. This reused material and reduced the need for new raw materials.
4	Which action stopped devices from using standby power?	The staff turned off a power strip after the computer class ended.

PART 3 • YOUR TURN (SAMPLE ANSWER)

ACTION	CONSERVES ENERGY OR MATTER?	HOW IT HELPS
Wear a sweater before turning up the heat	Energy	It can reduce energy used for heating.
Refill a water bottle	Matter	It avoids using a new disposable bottle.
Donate outgrown clothes	Matter	Another person can use the same materials.

Accept equivalent actions and explanations that accurately connect an action to saving energy or keeping materials in use. For Question 2, accept any two energy-saving actions stated in the passage.