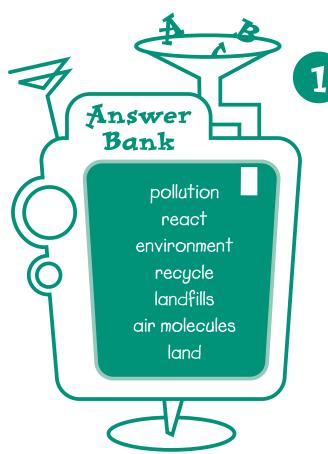


Planet Protectors Discover the Hidden Reasons To Reduce, Reuse, and Recycle



In this first activity, use the **Answer Bank** below to fill in the blanks with the correct key words. Remember, the words in the **Answer Bank** can only be used once, and they are mixed up, so you have to hunt to find the right one for each blank.



# Why We Already Reduce, Reuse, and Recycle

In addition, when we reuse our old things instead of buying new products, like reusing an old jelly jar as a pencil holder, we help keep the air clean. In other words, because we're reusing our old products, factories don't have to make as many new products, which will save energy and reduce the amount of \_\_\_\_\_\_ that factories release into the air.





{Burp!}



Ok, so we know a few reasons why practicing the "three R's" is good for the environment, but there is another important reason. Did you ever think about your garbage affecting the weather?

Match the descriptions below with the correct word in the

Answer Bank to see if you can make the connection!

- 1. The average weather we experience over a long period of time. It is affected by the way we treat our trash.
- 2. The air above the Earth's surface, which naturally contains "greenhouse gases."
- 3. Two common greenhouse gases that warm the Earth enough for us to live comfortably. When too many of these gases are released into the air, however, they become pollution.
- 4. A measurable degree of heat. When too many greenhouse gases escape into the air as pollution, they trap the sun's heat and cause this to rise all over the planet.
- 5. A word describing sunny skies, rainfall, snowfall, and drought. Scientists say that if the Earth's temperature rises, its overall climate could change, disrupting these patterns.
- 6. The chemical deterioration that our garbage undergoes after it's dumped in a landfill. This process releases methane, a greenhouse gas.
- An animal that releases greenhouse gas—when it burps! As
  this animal digests its food, bacteria in its stomach
  produce methane.

What we want to do to greenhouse gas releases. To do this, we have to think about the products we use everyday, find out how they are made, and examine whether we reuse and recycle them as much as possible.

Answer	Dank

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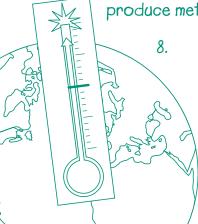
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## \_\_\_\_ temperature







# A New Reason to Reduce, Reuse, and Recycle

On page 5, read about the products or materials you might use every day and unscramble the missing words to learn about how reusing or recycling these products can help reduce greenhouse gases and prevent global climate change.

After you have correctly unscrambled the words, you can use the circled letters to fill in the corresponding blanks (by number) and decode

the Planet Protector's secret saying at the bottom of the page.

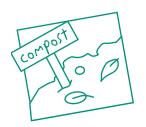
After you're finished with this section, go to the last three pages of this activity where you'll find the Trash and Climate Change fortune teller game. Print out the last two pages and follow the directions for making a "fortune teller" game that you can play with your friends to learn more about the products you use and how they affect the climate.



# Plastic, Metal, and Glass Products

butter from glass j  made into plastic. This entire RUNTGA process releases recycling or reusir reduce the need products. In other	rom plastic containers, soda from metal cans, or eat peanut jars? These containers are made from natural SEROUCSER, which are mined, transported, and then s, metal, or glass at a ORTACYF2.  SFNICAMU3	
F Ç	Paper Products  Do you use paper products such as paper napkins, wrapping paper? To make these items, SRETE cut down, transported by truck, and processed in mills. This procedure ALEERSES 5 gases and adds to climate change. By reducing the NA of paper you EUS 6 everyday or by recycleduce greenhouse gases from being released during the paper. You also help preserve trees, which naturally absorgas called RBAONC DIEXIDO 7 the air, helping to prevent climate change.	must be to paper at paper greenhouse TMUO ling paper, you help manufacture of rb a greenhouse

# Yard Trimmings and Food Scraps



# Planet Protectors' Secret Saying:

Who can help protect the Earth from climate change?

_	_	_			_	_	
2	1	6	5	3	7	8	l



# Planet Protectors Math Challenge

The following box shows just how much greenhouse gas is reduced by recycling certain materials:

1 ton of aluminum recycled = 13 tons of carbon dioxide prevented 1 ton of newspaper = 2.5 tons of carbon dioxide prevented

Can you use the information in the box above to fill in the following answer blanks?

If you prevented 91 tons of carbon dioxide, you recycled \_\_\_\_\_ tons of aluminum cans.

If you and your friend each recycled 4 tons of newspaper, together you would prevent \_\_\_\_\_ tons of carbon dioxide.

7 tons of aluminum 10 tons of carbon dioxide

Activity 4:

KOBSAB = ABSORB TOMPSOC = COMPOST

DIEXIDO = DIOXIDE BBYONC = CYBBON EN2 = N2E

ALEERSES = RELEASES

NATMUO = AMOUNT

SRETE = TREES

SHOUERNEEG = GREENHOUSE

RUNTGAFNICAMU = Manufacturing

SEROUCSER = Resources
ORTACYF = Factory

Activity 3:

7. Cow 8. Reduce

6. Decomposition

4. Temperature 5. Weather

3. Carbon dioxide and methane

S. Atmosphere

1. Climate

Activity 2:

recycle environment landills pollution

Scivity 1:

¥usmels

# What Can We Do at Home and at School To Help Stop Climate Change?

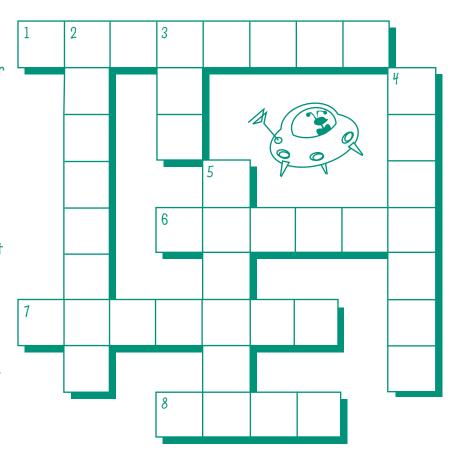
Below are some hints, but you have to figure out what words go in each blank, then fill them into the corresponding boxes in the crossword puzzle.

### **ACROSS**

- 1. Make your own \_\_\_\_\_paper for gifts from old newspaper comics or decorate grocery bags instead of buying new gift wrap paper.
- 6. Plant a tree. A tree can absorb up to 50 \_\_\_\_\_ of carbon dioxide each year.
- 1. Go to the library to learn more about the connection between reducing, reusing, recycling and \_ change.
- 8. No matter what product or material you use, take only what you \_\_\_\_\_.

### DOWN

- 2. Use cloth bags and napkins because they are \_\_\_\_\_ and will not have to be thrown away after one use.
- 3. Reuse a yogurt container as a flower
- 4. Pack your lunch in a reusable container instead of a paper or
- 5. Reuse or \_\_\_\_\_ old clothes and toys.

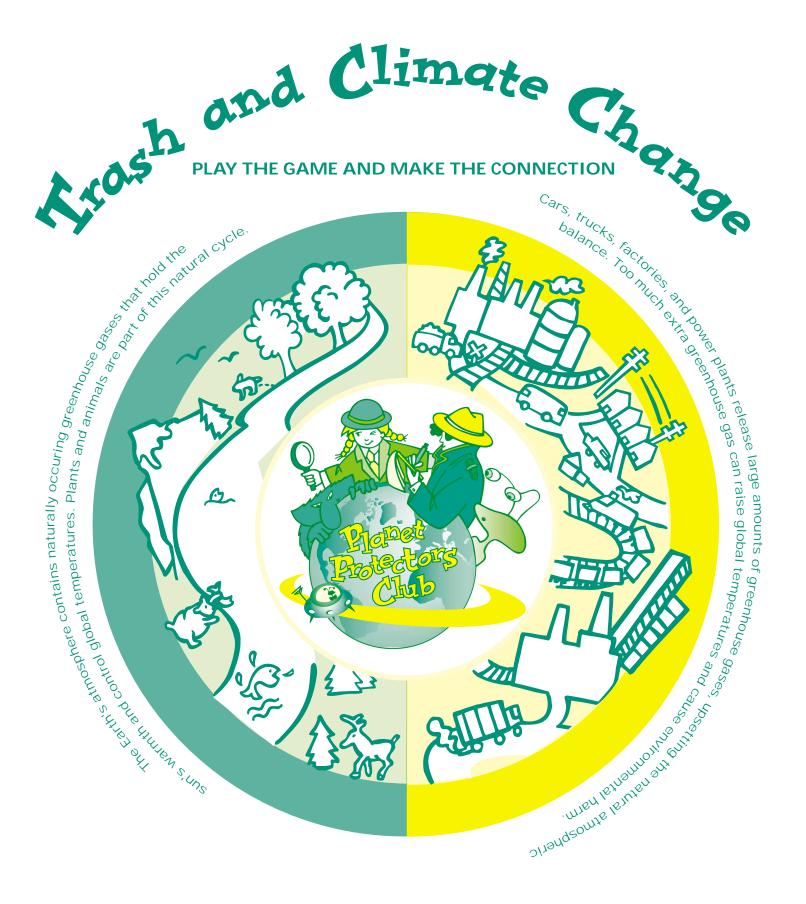


Down:2. reusable 3. pot 4. plastic 5. donate Across:1. wrapping 6. pounds 7. climate 8. need

**ANSWER** 



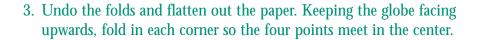
In the space below, write your own ideas on how to reduce. reuse, and recycle your trash so that you can be a Planet TTTTTTTT



## **Folding Instructions:**

Make all folds neatly and squarely

- 1. Carefully cut along the dotted lines to make a square.
- 2. With the picture of the globe facing upward, fold the paper neatly in half and then in half again.

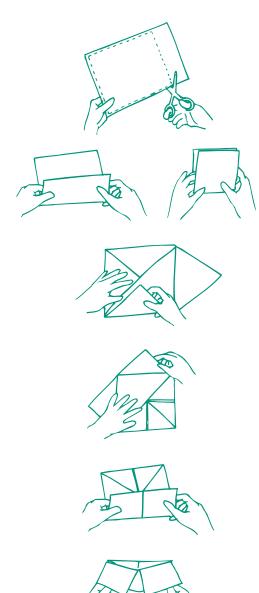




- 5. Fold the square in half, making a rectangle, with the open flaps facing down. The writing should be right-side up.
- 6. Slide both index fingers and thumbs under each of the four outer flaps.
- 7. Pinching your fingers together, push the top corners of the flaps toward the center. Poke down into the center to help form the shape.

## To play the game:

- 1. Answer one of the questions on any of the outer flaps.
- 2. Choose one of the possible answers on the inside. By opening it either of two ways, four possible answers are revealed.
- 3. Look under the selected answer to learn more.





**SONIMMINT GRAY** 



# **STANDARY**



into the atmosphere. sases suodnaste gaite by releasing greenhouse gases processed at factories. These activities contribute to nonped from the earth, trucked, and then PLASTIC is made from oil that is

from recycled plastic. Look for ways to plastic containers and buying things made You can help slow climate change by recycling

use economy-size less plastic. One way is to reuse plastic containers or to use

containers.

pencil, crayon, or toy holders

You can help slow global climate change reusing and recycling used metal and glass. Clean out, decorate, and reuse cans and jars as

activities contribute to global climate change by adding minerals that are mined from the earth, greenhouse gases to the atmosphere.

trucked, and then processed at factories. These METAL and GLASS are made from

are night from what





AND FOOD SCRAPS

composting them, they decay and release greenhouse gases,

which contribute to global climate change

scraps. If you send these items to a landfill instead of

ike soil, made of yard trimmings and food

COMPOST is a crumbly material,

You can help slow global climate change by making

less waste in the first place. Don't throw away

grass clippings and food scraps from your

or your garden. Your town may

collect yard trimmings to

HUSHINO

PAPER is made from trees that must be cut down, trucked, and processed at paper mills. These activities contribute to global climate change by releasing greenhouse gases to the atmosphere.

You can help stop global climate change by using less paper. Recycle used paper

and buy paper made from recycled

materials. Bring cloth bags to the

grocery store and use

both sides of a sheet of

paper as often as

possible.

