







	Assessment Rubric	
	How Is Our Resource Organized?	
	Bloom's Taxonomy for Reading Comprehension	
	• Vocabulary	
	STUDENT HANDOUTS	
_	READING COMPREHENSION	
	Climate Change Has Your Footprint On It	
	Your Footprint At Home]
	• A Footprint On Your Dinner Plate]
	Your Travel Footprint	2
	• Footprints At The Mall And In The Trash	2
	Your Slice Of The Shared Footprint	()
	How To Make Your Footprint Smaller And Why You Should	3
	Graphic Organizer	4
	Carbon Footprint Calculator	4
	Calculating Your New, Improved Carbon Footprint	4
	• Crossword	4
	• Word Search	4
	Comprehension Quiz	4

✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5778
- Enter pass code CC5778D for Activity



55



MINI POSTERS

NAME:

Your Footprint At Home

1. Circle the word TRUE if the statement is TRUE or Circle the word FALSE if it is FALSE.

a) Electrical appliances have a carbon footprint.

FALSE

b) A heating oil bill shows how much oil you used.

TRUE

c) An electric dryer is more energy efficient than a

TRUE

d) Modern appliances are usually less efficient

TRUE

FALSE e) Most factories have a carbon footprin

TRUE

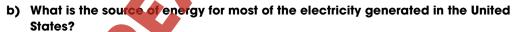
2. Put a check mark (\checkmark) next to the answer that is most correct.

a) An electricity bill shows how much energy you used in units of O A volts

O **B** amps

O **c** electrons

O **b** kilowatt-hours



O A solar cell

 \bigcirc B

vdroelectric dams C 4

nuclear power plants

c) All of these release CO2 into the atmosphere, except

O **A** a gas stove

B a solar cell

c a diesel truck

O **D** a wood-burning fireplace

© CLASSROOM COMPLETE PRESS



Reducing Your Own Carbon Footprint CC5778

NAME:





A Footprint On Your Dinner Plate

aware of which products are grown locally and which crops are season. These foods probably haven't traveled very far. Especially avoid summer produce in the winter. These foods were probably grown in the Southern Hemisphere many thousands of miles away.

Packaging is yet another indirect part of the food footprint. You can reduce this part by buying bulk items and by taking your own reusable shopping bag to the market. Food at farmers' markets and roadside stands have very little packaging. Some large markets also have bulk food sections.



Describe two ways to reduce your carbon footprint that is related to the food you eat.

Food classified as organic has been grown without pesticides, herbicides, or chemical fertilizers, and so it has a smaller footprint. Food at farmers' markets and natural food stores are usually organic.

Meat has a larger footprint than grains, beans, vegetables, or fruits. It is much more efficient to get your protein by eating grains and beans than to feed grains and beans to animals and then eat the animals. In other words, vegetarians have a smaller carbon footprint than meat eaters. Finally, you might want to consider starting a home garden. Now that is really local produce.

In anutshell, you can reduce your food footprint by buying local, organic, in season, in bulk, by eating less meat, and by growing your

© CLASSROOM COMPLETE PRESS



NAME:





Footprints At The Mall And In The Trash

1. Most things you own contribute to your carbon footprint. Number the parts of the footprint of a cotton T-shirt from 1 to 13 in the order they occur. The first and last have been done for you.

a) weaving cloth

b) manufacturing a tractor

c) washing and drying

d) sowing cotton seed

e) shipping to clothing store

f) trucking to landfill g) sewing

h) mining iron ore

i) shipping to factory

j) picking cotton

k) driving to and from clothing

spinning thread

m) plowing a field



ord **TRUE** if the statement is TRUE **or** Circle) the word **FALSE** if

furniture does not have a carbon footprint. TRUE

b) Almost all manufacturing has a carbon footprint because it uses energy.

ana peels, coffee grounds, and lawn trimmings can be put in a compost

TRUE

FALSE

d) Broken glass cannot be recycled.

FALSE

TRUE **FALSE**

Motor oil can be recycled.

TRUE

© CLASSROOM COMPLETE PRESS





After You Read 🔷

NAME:

Your Slice Of The Shared **Footprint**

3. Answer the questions in complete sentences.

a)	Describe y	our "civic	footprint"	and	give	three	exam	oles	of	activities	that	add	to	it.
----	------------	------------	------------	-----	------	-------	------	------	----	------------	------	-----	----	-----

b)	Planting a tree and switching to energy efficient light bulbs are both good for your
	footprint, but in different ways. Explain how each act changes the amount of CO2 in
	the atmosphere and how they are basically different.

Extensions & Application

Name three government activities that add to the government carbon footprint and to your share of that footprint. For each activity, describe a new law or other government action that could reduce that part of the footprint.

1.	Government Activity:
	Law to reduce footprint of activity:

2. Government Activity: _ Law to reduce footprint of activity:

3. Government Activity: _____ Law to reduce footprint of activity: ____







Carbon Footprint Calculator

(continued)

Transportation:

all the other emissions.

© CLASSROOM COMPLETE PRESS

Car Travel

Estimate how many miles you travel in a car each year and estimate the average number of people in the car when you are a passenger. Find out the miles per gallon (mpg) rating of the car that you ride in. The mpg for any car can be found at

nttp://www.fueleconomy.gov/Feg/findacar.htm Multiply times the conversion factor.
(miles ridden per year) × (22)
(miles per gallon) × (average number of people in car) = yr. Air Travel
Multiply the number of hours you spent flying over the last year by the conversion factor.
(hours spent flying) × (380) = $\frac{\text{lbs.}}{\text{yr.}}$
Public Transport
Multiply the approximate number of miles you rode on a bus or train by the conversion factor.
(miles on bus or train) \times (0.24) =lbs.
Total emissions due to transportation pounds/year
Everything Else: Waste
Start with 1220 pounds and subtract 240 lbs. if you compost kitchen scraps and lawn
trimmings. For recycling, subtract 140 for cans, 40 for glass, 220 for paper, and 40 for plastic.
Write the total here: pounds/year
Goods and Services
Find out how much your household spends each month on everything else. Include clothing,
furniture, appliances, entertainment, telephone, and healthcare. Don't include taxes or anything
already accounted for Use the formula below to find your share of this part of the footprint
$\underline{\text{(monthly household spending)} \times (6.0)} = \underline{\text{lbs.}}$
(number of people in household) yr.
Emissions on Your Behalf: 3520 pounds
Total emissions due to everything else: pounds/year
Trees Trees
Divide the number of trees on the property where you live by the number

GRAND TOTAL

pounds/year

_tons/year

Reducing Your Own Carbon Footprint CC5778

SUBTOTAL:

Reducing Your Own Carbon Footprint CC5778

/15

of people in your household, multiply the result by 20 and subtract it from

Divide the grand total by 2000 and write the answer here:

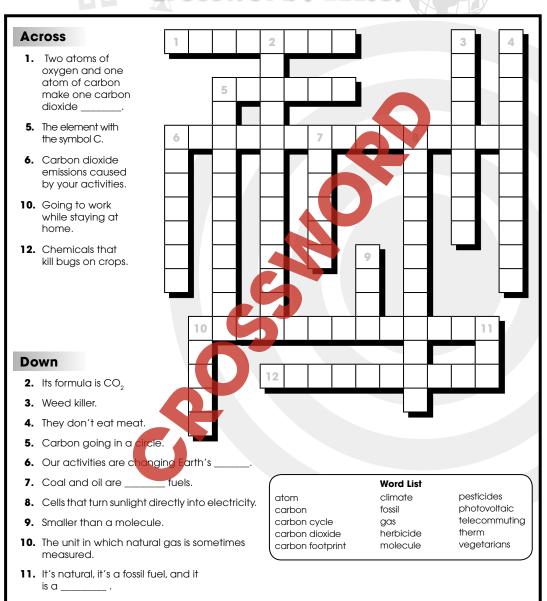
 Which of these parts of your person A the part caused by traveling B the part caused by the form C the part caused by govern 	_
B the part caused by the fo	_
c the part caused by gover	
	nment activities
D the part caused by heating	g and cooling your home
ort C	
er each question in complete sent	
explain how human activities are cho	anging Earth's climate.
No Construction of Construction	
Define carbon footprint.	
explain why using electric appliance	es increases your carbon footprint.
ell four ways you can reduce the ca	rbon footprint of the food you eat.



After You Read 🗲

NAIVIE

Crossword Puzzle!

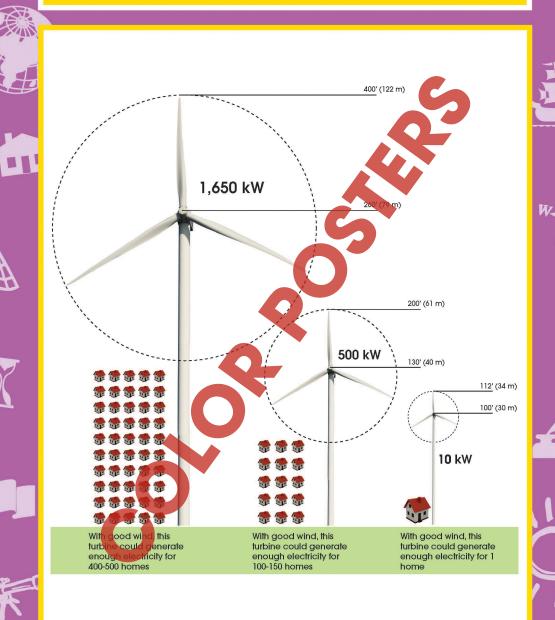


© CLASSROOM COMPLETE PRESS



Reducing Your Own Carbon Footprint CC5778

Wind Turbine Capacity





	rate Change Has Your Footprint On It
a) 	
 >)	
tens	ions & Applications
•	scribe the result of the greenhouse effect in terms of heat and temperature ange.
A	SY MARKING

3.

(Answers will vary. Order may vary.)

- a) Combustion converts carbon compounds to carbon dioxide.
- **b)** Photosynthesis converts carbon dioxide to carbon compounds.

Extensions & Applications

- A material raps heat and causes the temperature to rise.
- b) gases trap the heat.

a) TRUE

b) TRUE

c) FALSE

2.

a) D

c) B



12

1.

d) FALSE

e) TRUE

e) air conditioner

f) light bulb

(Answers will vary. Any two) natural gas, heating oil, electricity, coal.



a) cooking stove

b) clothes dryer

c) dishwasher

d) hot water heater

2.

TRUE

the energy bills. **b)** To find your home footprint,

a) You will need to

find the amount

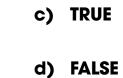
of energy used on

multiply the amount of energy times a conversion factor and divide by the number of people in your household.

Extensions & Applications







e) TRUE

15









Reducing Your Own Carbon Footprint CC5778