





TEACHER	CHIDE
ILACIILI	UUIDL

•	Assessment Rubric	4
•	How is Our Resource Organized?	5
•	Bloom's Taxonomy for Reading Comprehension	6
•	Vocabulary	6

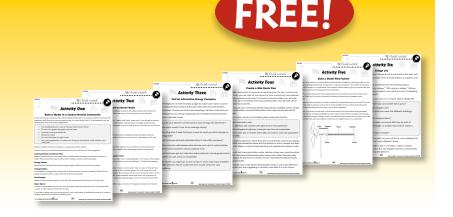
STUDENT HANDOUTS

READING COMPREHENSION

		ING COMI REHENSION	
	•	Climate is Changing, and So Must We	
	•	The Transportation Footprint of a Community	7
	•	Greener Vegetables	
	•	Very Green Houses	
	•	Reduce, Reuse, Recycle, and Plant	
	•	Some Green Towns and Cities	
	•	Is the Future Green or Grim?	
	•	Graphic Organizer	12
	•	Carbon Footprint Calculator	14
	•	Calculating Your Community's New, Improved Carbon Footprint	16
	•	Crossword	18
	•	Word Search	19
	•	Comprehension Quiz	20
EZY	EASY	MARKING™ ANSWER KEY	22
	NATET	DOCTEDO	3.4

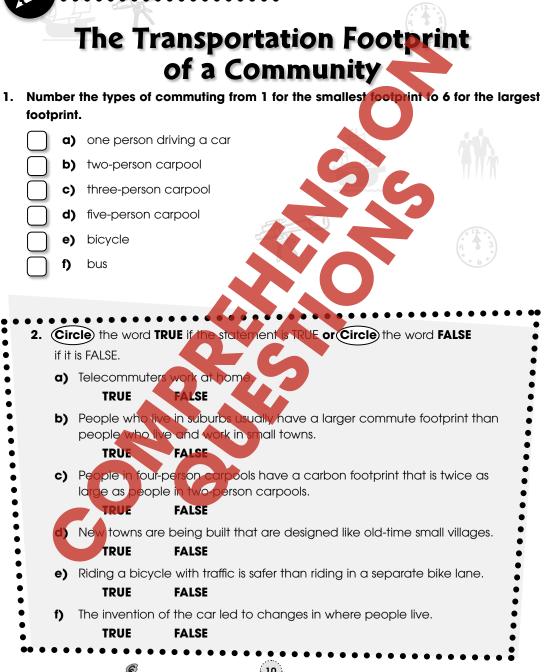
✓ 6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5780
- Enter pass code CC5780D for Activity Pages





NAME:	_	Before You Read
		The Transportation Footprint of a Community
1.	FA	the word TRUE if the statement is TRUE or Circle the word LSE if it is FALSE. Sharing rides to work is called carpooling. TRUE FALSE
		Buses are a type of public transport. TRUE FALSE Telecommuters are old-fashioned telephones.
	·	TRUE FALSE Transportation adds very little to the carbon footprint of a community. TRUE FALSE Biking has the same carbon footprint as riding a bus.
	f)	TRUE FALSE Electric cars usually have a carbon footprint. TRUE FALSE
		heck mark (\checkmark) next to the answer that is most correct. ich invention was the main cause of people moving from cities to the suburbs?
	_	A car B radio C telephone D electric lights
b)	Whi	ich means of transportation has the smallest carbon footprint? A bike B bus C carpool D train
ŕ	0000	w do most people in the United States travel to work? A bus B car C train D walk COMPLETE PRESS 7 Reducing Your Community's Carbon Footprint CCP5780-2
© CLASSF	KOOM	Reducing Your Community's Carbon Footprint CCP5780-2
		After You Read NAME:







NAME:

The Transportation Footprint of a Community

ost of the carbon dioxide we put into the atmosphere comes from energy use.

Transportation uses a big part of this energy. This is because most of our cars, buses, and trains either burn fossil fuel or run on electricity that comes from power plants that burn fossil fuel.

In most cities, people drive to their jobs. Most of these **commuters** ride alone rather than sharing rides. Driving alone burns more fossil fuel than any other way of commuting. The next best way to



Traffic congestion is both time consuming and harmful on the environment

lower your transportation footprint is to share a ride, called **carpooling**. Taking a public bus or commuter train is usually even better than carpooling.

The only means of transportation that doesn't have a footprint is travel by foot. (Confusing—isn't it?) When you walk run, or ride a bicycle, you are emitting almost no greenhouse gases.

Sometimes biking to work can actually save time. Suppose someone drives 10 miles across town through heavy traffic to their job. On a good day, it takes 20 minutes each way. On the way home they usually stop at the gym to exercise for an hour. Their commute and exercise have taken one hour and 40 minutes out of their life. If they rade a bike to work, the round-trip commute would take only one hour and 30 minutes, and they wouldn't have to stop at the gym because they would have already gotten their exercise. Less time is spent, they get their exercise, and they save money on gasoline and gym membership fees.



Which means of commuting to work has the largest carbon footprint, and which means has the smallest?

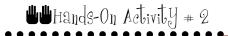
© CLASSROOM COMPLETE PRESS

© CLASSROOM COMPLETE PRESS

8

Reducing Your Community's Carbon Footprint CCP5780

۱ns	The Transportation of a Commun	-
)	Explain why people moved from cities and villages	to suburbs.
)	Describe two ways that changing from commuting can save money. 1.	by carto commuting by bicy
	2.	
ve	tensions & Applications wes in a suburb ten miles from a large city, where he dr es in a small village, where she also works. Describe thre	
IUS	es in a small village, where she also works. Describe throuse of where they live. Be sure to choose differences the rints and to their commutes.	



Carbon Footprint Calculator

If your state is a **low** footprint state, write down **13** tons per year. If your state is a **medium** footprint state, write down **20** tons per year. If your state is a **high** footprint state, write down **31** tons per year.

These will be good guesses of the personal footprints of the people in your community.

If you live in one of the countries listed in the table, use the footpant shown there.

You might find it interesting to compare the per capita footprint of your community with some other countries and with the world average. You can find these values in the table at the bottom of the page.

Now you must find out how many people live in your community—in other words, the population. There are several ways to do this.

Country	Per capita Footprint in Tons
United Kingdom	9.7
Canada	19
Australia	21

- 1. Many people already know your town or county
- population. Your teacher would be a good person to ask.

 Many towns have signs where major highways enter the town that give the town name and population.
- You can go to the official website of the U.S. Census Bureau at: http://www.census.gov/popest/estimates.html.
 You will find a link to the most recent population estimates. Click on "All incorporated places" and then on "Excel" or "CSV" under the name of your state. You will find an alphabetical list of cities in your state and the population of each.

To find your community carbon footprint, simply multiply the per capita footprint times the population:

(per capita footprint, tons per person) × (community population) = community carbon footprint in tons

Write the answer here: Community Carbon Footprint = ____

On the following pages you can calculate how much certain changes in your community can reduce its footballs. can reduce its footpri

For Comparison								
O a combrate	Per capita Footprint							
Country	in Tons							
Afghanistan	0.03							
India	1.2							
China	4.6							
United States	20							
World Average	4.5							

© CLASSROOM COMPLETE PRESS

Reducing Your Community's Carbon Footprint CCP5780-2

NAME:





Word Search

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

					<u>.</u>
active	decompose	greenhouse	organic	turbine	:
atmosphere	fertilizer	habitat	per capita	wind	:
carbon footprint	fossil fuel	heat island	pesticide		:
carbon neutral	gas	methane	photovoltaic cell		:
carpool	geothermal	microbe	solar		:
commuter	greenbelt	natural	suburb		:
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			•	• • • • • •

Р	Т	Α	В	С	С	Н	R	Е	T	٥	М	M	0	C	R
0	Н	J	D	Α	Е	F	Α	G	Н	•	7	K	L	Α	Α
М	R	0	R	R	T	L	Е	В	N	E	E	R	G	R	L
N	0	U	T	В	0	Р	D	Q		R	S	Α	Е	В	0
Т	U	>	Α	0	-	V	X	N	y	T	T	Z	0	0	S
Р	D	Û	Р	Ν	V	Ν	A	В	I	М	Α	С	T	Ν	D
Е	N	R	Δ	F	_	0	Ш	R	0	8	Р	T	Ι	Z	F
R	А	Е	_	0	E	0	۲	S	F	L	E	Е	Е	Е	0
С	L	Е	O	0	G	H	Р	Т	Α	Z	S	_	R	J	S
А	S	Z	R	(I	Α	R	А	0	T	T	Δ	T	S
Р	ı	Η	0	P	E	O	U	Н	Р	_	-	K	A	R	ı
I	Т	O,	þ	R	T	T	T	М	L	Ш	С	М	Ш	Α	L
Т	А	>	ju l	_	Α	Е	0	Ν	ı	0	_	O	Р	ш	F
А	Е	S	٧	N	М	C	Q	Z	R	S	D	G	Е	T	U
U	Н	Е	V	T	Е	W	Е	Х	Υ	Z	Е	Α	Α	L	Е
В	С	D	Е	D	В	R	U	В	U	S	F	G	Н	S	L

© CLASSROOM COMPLETE PRESS



Reducing Your Community's Carbon Footprint CCP5780-2

NAME:





Comprehension Quiz

Vhat does telecommu	uting mean?		
	-		
low can food waste b	pe used to generate ele	ctricity?	
iew carrieda wasie s	o aboa to gonerate ele	Colony	
	4		
Vhat makes a commu	unity carbon neutral?		
xplain how plantina t	rees lowers the carbon f	footprint of a community.	
		,	

SUBTOTAL:

Reducing Your Community's Carbon Footprint CCP5780-2



Reducing Your Community's Carbon Footprint CCP5780-2

© CLASSROOM COMPLETE PRESS



© CLASSROOM COMPLETE PRESS



NAME:

The Transportation Footprint of a Community

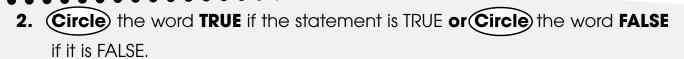
1.	Number the types of commuting from 1 for the smallest footprint to 6 for the largest
	footprint.

a)	one person driving a car
b)	two-person carpool
c)	three-person carpool
d)	five-person carpool



bicycle





a) Telecommuters work at home.

TRUE

People who live in suburbs usually have a larger commute footprint than people who live and

FALSE

c) People in four-person carpools have a carpon footprint that is twice as large as people in two-person carpools.

> **TRUE FALSE**

d) New towns are being built that are designed like old-time small villages.

TRUE FALSE

e) Riding a bicycle with traffic is safer than riding in a separate bike lane.

TRUE FALSE

f) The invention of the car led to changes in where people live.

TRUE FALSE

© CLASSROOM COMPLETE PRESS



Reducing Your Community's Carbon Footprint CCP5780-2

- a) (Answers will vary.) Cars made it possible to live farther from workplaces.
- **b)** (Answers will vary.)
 - 1. You don't have to buy gasoline.
 - 2. You don't have to pay gym membership.

a) TRUE

Jae buys more

- d) TRUE
- e) FALSE
- f) TRUE



- 2. Jill can get exercise walking and biking to work.
- 3. Jill has more free



