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STUDENT HANDOUTS

READING COMPREHENSION

	•	Climate Change Has Your Footprint On It	
	•	Your Footprint At Home	
	•	A Footprint On Your Dinner Plate	
	•	Your Travel Footprint	
	•	Footprints At The Mall And In The Trash	
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- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5778
- Enter pass code CC5778D for Activity





NAME:		— U B	efore You Read	
		• • • • • •	•••••	
How To	Make Yo	our Foot	brint Sr	maller
			-	1777
	And Wh	y you si	iouid	
1. Parts of your ca	rbon footprint can	be classified into	four different are	as of activity:
Home	Food	Travel	Everything E	se
Match the activities terms above in each		•		
a)		w. icitris will be ase	differential worlde	•
b)	_			
c)				0120
d)				a 1 3
e)			•	
f)	taking a load of tr	ash to a landfill		
g)	planting a garden			
h)	flying to Paris			
2. Put a check ma	ırk (√) next to the o	answer that is mo	st correct.	
a) Which of the	ese changes would	make the best a	ddition to the soc	ial contract?
O a acc	epting that we can	not do anything ak	oout climate chanç	ge
_	epting the need for	•		tprint
_	epting the need to depting that rich cou			than poor
COU	ntries		_	
b) In which of footprints?	these countries do	people have the	largest individual	carbon
O a Chir	na			
O B Engl				
O c India O p Unite	a ed States			
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How To	Make Yo	our Foot y You Si	nould	••••••
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O **c** Americans have one of the highest carbon footprints.

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O **p** Americans long to travel less and have more efficient appliances.

Reducing Your Own Carbon Footprint CCP5778-7



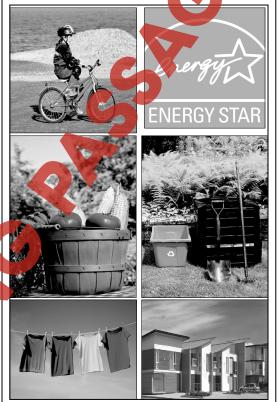


NAME:

How To Make Your Footprint Smaller And Why You Should

hen you are in a supermarket, it is pretty easy to slip a candy bar into your pocket and walk out without paying for it or getting caught. Why don't more people do that? Think about it. Most people also don't throw trash out of their car windows, cut in line, or steal chickens, even though it would be easy to get away with. It is not just the law, guilt, or conscience that keeps people from doing whatever they feel like. It is something called the social contract.

The social contract has evolved over thousands of years because societies that accept the contract are more successful, so they are the societies that survive. The deal is that everyone accepts certain personal inconveniences so that



Have you thought about your Social Contract?

everything runs more smoothly and everyone is safer, richer, and happier. The contract has been working for so long that we don't even think about it or realize we are doing it. Now it is time to admit that, if we are to survive much longer, we must add something to the contract: Avoiding unnecessary ${\rm CO_2}$ emissions must become accepted as normal, natural behavior.

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Reducing Your Own Carbon Footprint CCP5778-7

NAME:	





How To Make Your Footprint Smaller And Why You Should

3. Answer the questions in complete sentences.

							_			
a) N	Name the four	areas of	activity	that	add to	vour	carbo	n fo	potpri	nt.

b) For each area you named, describe one change that can reduce a person's carbon footprint.

Extensions & Applications

Without realizing they are doing it, people accept certain rules of behavior known as the social contract, such as not cutting in line. It would be good for the environment if acceptance of smaller carbon footprints were also part of the social contract.

Think of three things that are already accepted behavior. Try to make them as similar as possible to accepting a reduced potprint, and try to make them all behaviors that benefit the environment. For each accepted behavior explain how it helps the environment.

1.	Accepted activity:
	How the activity helps the environment:
2.	Accepted activity:
	How the activity helps the environment:

3.	Accepted activity:	
	How the activity helps the environment: _	

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Calculating Your New, Improved **Carbon Footprint**

You have read about all the ways you can reduce your carbon footprint, and you have thought about which changes you would like to make, which changes you really will make, and which changes you can talk your family into making. Use estimates of your expected changes to calculate your new footprint.

For some reductions, you will have to decide where you fall in a range. For example, by eating less meat you can reduce your footprint by some amount in the range 0 to 4400 lbs. So if you now eat meat at every meal, and you plan to eat meal one meal a day, you will reduce your footprint by 2/3 of 4400, which is 2933 lbs.

Changes at home:

Reduction in lbs./yr.

lbs./yr.

_lbs./yr.

lbs./yr.

Replace inefficient appliances with EPA rated "Energy Star" appliances. Estimate the part of your energy bill used by appliances to be replaced and take 25% of that as your reduction.

Replace tungsten bulbs with fluorescents. Save 11b./watt replaced. lbs./yr. Take quick showers instead of long baths. 200 lbs. lbs./yr.

Adjust to a wider range of home temperature. For every 4 °F increase in temperature range subtract 250 lbs./yr. lbs./yr. Use a clothesline instead of a dryer. 300

dryer and 150 lbs./yr. for a gas dryer. Improve home insulation. Save 30% of emissions due to heating

and air conditioning. Install double pane windows for a reduction of 3000 lbs/yr,

depending on number of window lbs./yr. Install a solar hot water heater for 800 lbs./yr. reduction. lbs./yr.

Generate your own electricity with photovoltaic cells for a reduction equal to the emissions you calculated for electricity in the first part. lbs./yr.

Total Home Reductions lbs./yr. Your Personal Reduction (divide by number of people in household) lbs./yr. **Changing Your Diet:**

A reduction of 1467 lbs./yr. for each meat meal eliminated every day. lbs./yr. Change from no organic to all organic produce for a reduction of 600 lbs. _lbs./yr. Change from all imported to all local food for a reduction of 400 lbs. lbs./yr. Grow your own. The fraction of your food you expect to grow times the total emissions due to food purchases. lbs./yr.

Total Food Reductions:

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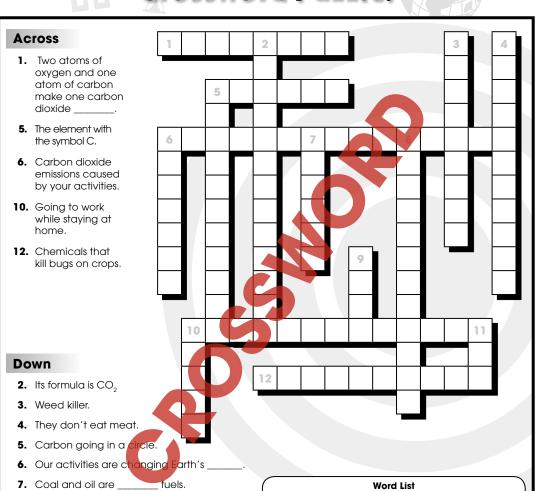


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After You Read

NAME:

Crossword Puzzle!



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9. Smaller than a molecule.

11. It's natural, it's a fossil fuel, and it

measured.

8. Cells that turn sunlight directly into electricity.

10. The unit in which natural gas is sometimes



atom

carbon

carbon cycle

carbon dioxide

carbon footprint

Reducing Your Own Carbon Footprint CCP5778-7

climate

herbicide

molecule

fossil

pesticides

therm

photovoltaic

vegetarians

telecommuting

After You Read 🔷

NAME:

Comprehension Quiz



lbs./yr.

Part A

Circle) the word **TRUE** if the statement is TRUE **or** Circle) the word **FALSE** if it is FALSE.

1. Human activities are changing Earth's climate.

FALSE TRUE

Double pane windows will reduce the amount of energy used to heat and cool a home. TRUE **FALSE**

Meat eaters have a smaller carbon footprint than vegetarians. **TRUE FALSE**

Trains produce more CO, per passenger-mile than p

TRUE

Buying new clothing increases your carbon for second-hand clothing.

TRUE FALSE

6. Photosynthesis removes CO₂ from the atm

TRUE FALSE

The carbon footprint of the average rican is smaller than that of the average European.

TRUE

Part B

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

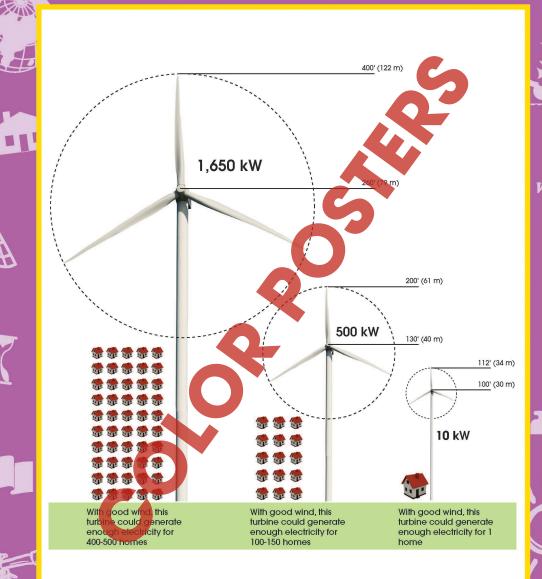
- 1. All of these energy sources release CO, into the atmosphere, except В coal C natural
- hydroelectric
 - taking baths instead of showers
- keeping the house heated to 70 °F instead of 65 °F using fluorescent light bulbs instead of standard bulbs

washing half loads instead of full loads in the dishwasher

2. Which of these changes will reduce your carbon footprint at home?

SUBTOTAL:





NAME:

After You Read

How To Make Your Footprint Smaller And Why You Should

- 3. Answer the questions in complete sentences.
 - a) Name the four areas of activity that add to your carbon footprint.

b) For each area you named, describe one change that can reduce a person's

carbon footprint.

Extensions & Applications

Without realizing they are doing it, people accept certain rules of behavior known as the social contract, such as not cutting in line. It would be good for the environment if acceptance of smaller carbon footprints were also part of the social contract.

Think of three things that are already accepted behavior. Try to make them as similar as possible to accepting a reduced footprint, and try to make them all behaviors that benefit the environment. For each accepted behavior, explain how it helps the environment.

1. Accepted activity:

How the activity helps the environment:

2. Accepted activity: _______

How the activity helps the environment: ______

3. Accepted activity: _____

How the activity helps the environment:

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3.

(Answers will vary.) At home, you can change to fluorescent light bulbs (or any energy-saving home improvement). When food shopping, you can buy less meat (or any change in diet or food shopping habits that reduces your footprint). When traveling, you can carpool with other people (or any change to a more efficient means of travel). You can recycle more of your waste materials (or any reduction of waste or planting trees).

Extensions & Applications

- 1. Accepted activity: Most people don't throw trash out of car windows.
 How the activity helps the environment: Prevents aesthetic pollution. Saves energy involved in cleanup of highways. Makes it possible to recycle things not thrown away.
- 2. Accepted activity: Most people don't pour dil and other toxic materials down storm drains.

 How the activity helps the environment: Protects aquatic life in streams and oceans that the storm drains lead to.
 - 3. Accepted activity: Most dog owners obey leash laws and clean up after their dogs. How the activity helps the environment: Protects wildlife from dog attacks. Prevents disease and annoyance caused by dog feces.



Across

- 1. molecule
- **5.** carbon
- 6. carbon footprint
- 10. telecommuting
- **12.** pesticides

Down

- 2. carbon dioxide
- 3. herbicide
- 4. vegetarians
- 5. carbon cycle
- **6.** climate
- 7. fossil
- 9. atom
- **11.** gas



