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FREED
- Go to our website: www.classroomcompletepress.com/bonus
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## Your Travel Footprint

 if it is FALSE.a) Most vehicles add to the carbon footprint because they release oxygen. TRUE FALSE
b) Hybrid cars run on both gasoline and electricity. TRUE FALSE
c) People who work at home usually have smaller Carbon footprints than people who commute to work.

```
                TRUE FALSE
```

d) A person running exhales about as much $\mathrm{CO}_{2}$ as is emitted by a gasoline powered car.
TRUE FALSE
e) Commuters can reduce their carbon footprints by carpooling TRUE FAISE
2. Put a check mark ( $\checkmark$ ) next to the answer that is most correct.
a) Which means of transportation has the smallest carbon footprint?

$$
\begin{array}{lll}
\bigcirc & \text { A } & \text { bicycle } \\
\bigcirc & \text { B } & \text { bus } \\
\bigcirc & \text { c } & \text { plane }
\end{array}
$$

b) Why do buses have a lower carbon footprint than cars?
$\bigcirc$ A Buses make more stops.
$\bigcirc$ B Buses carry more people.
O c Buses travel at lower speeds
O d Busesh have more powerful engines.
c) Which type of driving results in the best fuel efficiency and the smallest carbon footprint?
O A slow with many stops and starts
O B fast and at a constant speed
O c slow and at a constant speed
O d fast with many stops and starts
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## Your Travel Footprint

1. The footprint of different ways of traveling is best compared by comparing how many pounds of $\mathrm{CO}_{2}$ are emitted per passenger-mile. Match each means of travel to the approximate pounds of $\mathrm{CO}_{2}$ emitted per passenger-mile (Ibs./p-mi.). Some answers will be used more than once.


NAME


## Your Travel Footprint

3. A single person driving a car alone has one of the largest travel footprints. Describe two ways the footprint of transportation by automobile can be reduced.
a)

b)


Irains, planes, and buses all have carbon footprints because they buin fossil fuels which emit $\mathrm{CO}_{2}$. Each of these also has a secondary, indirect footprin caused by activity that makes travel by these vehicles possible. Choose twe of these means of fransportation and for each one describe three sources of a seconda
a) First vehicle:

b)
1.
2.
2. $\qquad$
3.
st people increase their carbon ootprint when they travel because most vehicles emit $\mathrm{CO}_{2}$ and other greenhouse gases. There are basically three ways to reduce your travel footprint: travel more efficiently, travel less, and travel under your own power.
First let's compare the efficiency of some different kinds of transportation. An average American car with one person in it emits a little over one pound of $\mathrm{CO}_{2}$ per mile. Commercial aircrafts are about the same, based on pounds of $\mathrm{CO}_{2}$ per passenger-mile (the miles flown divided by the number of passengers), The footprints of trains and buses are ab half that size, but it varies a lot depending on how full they are.


So you can shrink your travel footprint by taking public transport, but there is a lot you can do to make driving a car more efficient t00. The easiest way is to put more people in the car. If three people are in the car, each person's footprint is one-third as large (do the math). Hybrids are cars that are partly electric powered and partly gasoline powered. The electricity is generated and stored in batteries when the brakes are applied. Hybrids give off about one-half pound of $\mathrm{CO}_{2}$ permile. Also, some ordinary economy cars are just as efficient as hybrids.
Any car can be made more efficient by proper maintenance and driving habits. Regular tune-ups and proper tire inflation help. Reducing the weight by taking things out of the trunk that don't need to be there
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Reducing Your Own Carbon Footprint CCP5778-4


NAME

Comprehension Quiz

## Part B

3. Which of these parts of your personal footprint is most difficult to reduce
__ A the part caused by traveling
_ B B the part caused by the food you eat
_ C The part caused by government activities
D the part caused by heating and cooling your

## Part C

Answer each question in complete sentences

1. Explain how human activities are changing E

2. Explain why bus passengers have lower travel footprints than car passengers, even though buses emit more $\mathrm{CO}_{2}$ than cars.


[^0]$\qquad$

## Word Search

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


| G | A | B | C | D | E | F | C | $\bigcirc$ | M |  |  |  | T | 1 | $\bigcirc$ | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L | N | V | E | G | E | T | A | R | 1 |  |  | H | $Q$ | X | R | R |
| $\bigcirc$ | G | 1 | H | 1 | J | K | R | L | M |  | E | C | Y | 0 | P | E |
| B | S | T | T | C | A | R | B | - |  |  | 1 | G | U | V | N | Z |
| A | W | H | X | U | Y | Z | $\bigcirc$ |  |  | A | E | B | C | A | D | I |
| L | E | Y | F | G | M | H | N | E | T | N | 1 | J | H | K | L | L |
| E | M | B | N | $\bigcirc$ | P |  | ) | L | w | R | S | T | T | U | V | । |
| D | G | R | E | E |  |  |  | U | S | E | E | F | F | E | C | T |
| 1 | W | 1 | X |  |  | V | $\bigcirc$ | C | A | M | B | C | D | E | 1 | R |
| C | F | D | G |  | 0 | 1 | T | E | E | J | K | M | L | M | N | E |
| 1 | N | $\bigcirc$ | P |  | Q | R | P | L | S | L | $\bigcirc$ | T | U | V | A | F |
| T | W | X |  |  | Z | A | R | $\bigcirc$ | B | T | E | C | D | E | G | F |
| S | G | H | H | 1 | C | L | 1 | M | A | T | E | T | J | K | R | L |
| E | P | M | N | $\bigcirc$ | P | D | N | U | $\bigcirc$ | P | M | $\bigcirc$ | C | $Q$ | $\bigcirc$ | R |
| P | S | T | U | V | N | A | T | U | R | A | L | G | A | S | w | X |

[^1](19)

## Choose Eco Friendly Homes



3. A single person driving a car alone has one of the largest travel footprints. Describe two ways the footprint of transportation by automobile can be reduced.
a) $\qquad$
b) $\qquad$

## Extensions \& Applications

Trains, planes, and buses all have carbon footprints because they burn fossil fuels which emit $\mathrm{CO}_{2}$. Each of these also has a secondary, indirect footprint caused by activity that makes travel by these vehicles possible. Choose two of these means of transportation and for each one describe three sources of a secondary footprint.
a) First vehicle: $\qquad$
1.

2.

b) Second vehicle: $\qquad$

1. $\qquad$
2. $\qquad$
3. $\qquad$


[^0]:    wn Carbon Footprint $C$

[^1]:    © classroom complete ${ }^{\text {cerpess }}$

