Weather & Atmosphere, Lesson 6: Global Climate Change – Carbon Footprint Worksheet

Instructions

Your "Carbon Footprint" is a calculation that tells you how much carbon dioxide you produce. Since carbon dioxide is a greenhouse gas, this worksheet can help you see how you contribute to global warming.

Family Survey

Answer each question for a yearly total (multiply a monthly total by 12).

1. Number of miles driven per year _____ X (multiplied by) the vehicle's average

gas mileage _____ = ____ gallons of gasoline used.

(Do this for each vehicle your family owns)

_____X ____ = _____

_____X ____ = ____

Total _____

- 2. Number of miles of air travel for your family ______.
- 3. Average number of miles your family travels by bus/other mass transit______.
- Kilowatt-hours of electricity used ______.
 (Look at your utility bill to find out a monthly amount and multiply by 12.)
- Therms of natural gas used ______.
 (Look at your utility bill to find out a monthly amount and multiply by 12.)
- 6. Gallons of propane or bottled gas used ______ .
- 7. Other sources of energy your family uses?



Name:	Date:
8. Total number of p	eople living in your household
Your "Footprint" on the	he Global Environment – The Greenhouse Effect
	gathered in your Family Survey to calculate how much CO_2 (Carbon r year. Carbon Dioxide is one of the main gases involved in creating the
1.Gallons of gasoline use	d x 22 pounds CO2/gallon =
2.Miles of air travel	x 0.9 pounds/mile =
3.Miles on mass transit	x 0.5 pounds/mile =
4.Kilowatt hours	x 1.5 pounds/ kWh =
5.Therms natural gas	x 11 pounds/therm =
7.Gallons of propane	x 13 pounds/gallon =
Total pounds of CO2 gen	erated (add up all the numbers on the right)
Total pounds generated X	(multiply by) number of people in your household =
(T	Cotal You Generated)
Reducing Your Impac	t
In the space below, write	down some actions that you and your family could do to

In the space below, write down some actions that you and your family could do to reduce the Greenhouse Effect.