

Vegan = 1000 kg CO,

\*This total includes the fact that 45 percent of food in the U.S. is wasted

## Hack Your Impact

How are you affecting climate change?

Directions: Gather your parents' utility bill(s) from the past month to use in this exercise. Calculate your CO<sub>2</sub> emissions for each category, then add up those totals to determine your annual impact.

Planes		
Conversion factors:  1 mile traveled in coach = .3 kg CO <sub>2</sub>	1 mile traveled in first class = .6	5 kg CO <sub>2</sub>
In the past twelve months, how many mile	s did you travel in a plane?	
Coach: miles $X.3 \text{ kg CO}_2 =$ kg CO First class: miles $X.6 \text{ CO}_2 =$ kg ( *The average person in the U.S. emits about 1,0		Total: kg CO <sub>2</sub>
Cars  Conversion factors: 1 gallon = 11.3 kg	g CO <sub>2</sub>	
Estimate number of miles driven per montl		
Number of miles per gallon your/your fami	ly's car gets: miles/gallon	
miles/month ÷miles/gallon:	gallons/month	
gallons/month X 12: gallons/ye	ear	
gallons/year X 11.3 kg CO <sub>2</sub> = kg	CO <sub>2</sub> /year Total: kg CO <sub>3</sub>	
kg CO <sub>2</sub> /year ÷ people in the car : (your individual total)	= kg CO <sub>2</sub> /year	
*The average person in the U.S. emits 5,000 kg C	CO <sub>2</sub> per year from driving	
Food		
Conversion factors:  Meat consumer = 3000 kg CO <sub>2</sub> Vegetarian = 1500 kg CO <sub>2</sub>		Total: kg CO

## Natural Gas

Note: You'll need your parents' monthly utility bill information for this exercise. Your answer will be an approximation because gas usage tends to be higher in winter months than in summer months.

Conversion factors: 1 therm = 11 kg CO <sub>2</sub>	
therms/month X 12 = therms/year therms/year X 11 kg CO <sub>2</sub> = kg CO <sub>2</sub> /year	Total:kg CO₂
kg CO <sub>2</sub> /year ÷ people in your household = kg CO <sub>2</sub> /year (your individual total)	

\*The average person in the U.S. emits about 1,800 kg CO<sub>3</sub>-equivalent per year from natural gas

## Electricity

Note: You'll need your parents' monthly utility bill information for this exercise. Your answer will be an approximation because electricity usage tends to be higher in winter months than in summer months.

Conversion factors: 1 kWh = .8 kg CO <sub>2</sub>		
kWh/month X 12 = kWh/year	Total:kg CO <sub>2</sub>	
kWh/year X .8 kg CO <sub>2</sub> = kg CO <sub>2</sub>		
kg CO <sub>2</sub> ÷people in your household =kg CO <sub>2</sub> /year (your individual total)		
*The average person in the U.S. emits about 3,500 kg CO <sub>2</sub> -equivalent per year from electricity		

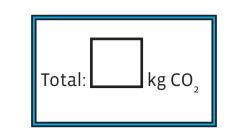
## New Material Items

Conversion factors: 1 dollar = .5 kg CO<sub>2</sub>

Amount of money you've spend in a month on new clothes, books, cosmetics, electronics, shoes, etc: \$\_\_\_\_\_

\$\_\_\_\_ X 12 = \$\_\_\_\_ per year

 $S_{x} X .5 \text{ kg CO}_{2} = ___ \text{kg CO}_{2}/\text{year}$ 



\*The average person in the U.S. emits about 2,000 kg  $\rm CO_2$ -equivalent per year from buying new stuff

Your Annual Carbon Footprint:



kg CO<sub>2</sub>