Global Warming Wheel Card

• Cut out the two large circles and the two large rectangular pieces.

• Cut out the two little rectangular windows on each of the large rectangular pieces.

• Put glue on the backs of both circles and put them together to make the “wheel” of the wheel card, making sure that you align them so that the four labels that run along the outside of each circle (Waste Disposal, Home Heating, Electricity Use, and Transportation) line up with the corresponding labels on the other side. The Waste Disposal label on one side should line up with the Waste Disposal label on the other side, and so on.

• Lay the rectangular piece entitled “What Can You Do?” upside-down on the table with the larger of the two cutouts closer to you. If you lift up the edge of the rectangular piece and see the words “Global Warming—What Can You Do?” right side up, you’ve done it correctly.

• Put the glued-together wheel on top of the rectangular piece, with the side that has all the questions (such as “On average, how much does your household spend on electricity each month?”) facing up.

• Lay the other rectangular piece entitled “What’s Your Score?” on top of the wheel, with the smaller of the two cutouts closer to you.

• Look for the “belly button” on the pasted-together wheel and the large rectangular pieces. Push a paper fastener ("brad") through the “belly button” to hold all the pieces together.

• Glue the large rectangular pieces in all four corners just enough to hold the rectangles together but allowing the wheel to turn freely.

• If you wish, highlight each line inside the windows in a different color to make it easier to read. If you have access to a color printer, this step will be unnecessary.

• If you are putting the wheel together to use in a demonstration, now you’re ready to calculate the greenhouse gas emissions “score” of members of your audience and what they can do to reduce it.

If you have access to a color printer and would like to download additional color Global Warming Wheel Cards, please visit the EPA Global Warming Wheel Card homepage at www.epa.gov/climatechange/emissions/wheel_card.html.
Global Warming —

What’s Your Score?

In the United States, a typical household of two people generates approximately 41,500 pounds of carbon dioxide (CO₂) emissions every year from household activities and personal transportation.
Global Warming —

What Can You Do?

If you took all of the actions on this wheel card, you could save 14,400 pounds of carbon dioxide (CO₂) annually and over $1,600 from your annual home energy bill and gasoline costs.

Resources

U.S. Environmental Protection Agency climate change website: www.epa.gov/climatechange

ENERGY STAR® website: www.energystar.gov

For more precise calculations and a summary of assumptions used in this wheel card: www.epa.gov/climatechange/calc
Global Warming Wheel Card
Side 1 (inside)

**Home Heating**

On average, how many miles do you put on your car(s) per week? If you have more than one car, use the total number of miles per week for all your cars.
- 200 miles
- 400 miles
- 600 miles

**Electricity Use**

What is your average monthly heating bill? Pick closest amount.
- $50
- $100
- $200

1,600 lbs./year
1,100 lbs./year

**Transportation**

Which of the following scenarios best describes your household’s waste disposal practices?
- We recycle everything we can.
- We recycle about half of all recyclable materials (paper, plastics, glass, magazines, aluminum and steel cans).
- We don’t recycle at all.

10,800 lbs./year
21,600 lbs./year
32,300 lbs./year

**Global Warming — What’s Your Score?**

- $0
- $10
- $20
- $50

**Waste Disposal**

What is your average monthly electric bill? Pick closest amount.
**Global Warming Wheel Card**

**Side 2 (inside)**

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**Home Heating**
- Replace 10 75-watt incandescent light bulbs with 20-watt ENERGY STAR lights.
- Replace old refrigerator with a new ENERGY STAR model.
- Turn up your air conditioner’s thermostat by 2 degrees Fahrenheit in summer.

**Transportation**
- Turn down your heating thermostat by 8 degrees Fahrenheit on winter nights.
- Replace single-paned windows with ENERGY STAR windows.
- Replace your old gas or oil furnace or boiler with an ENERGY STAR model.

**Electricity Use**
- Reduce your waste generation by 25 percent.
- Reduce half of your potentially recyclable materials (paper, plastics, glass, metals).

**Waste Disposal**
- Buy a vehicle that gets 10 miles per gallon more than your current one.
- Reduce the number of miles you drive by 25 miles per week.

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**Global Warming — What Can You Do?**

- Mass transit instead of driving.
- Combine trips, or taking walking, biking, carpooling.
- Buy a vehicle that gets 10 miles per gallon more than your current one.
- Reduce the number of miles you drive by 25 miles per week.

**Current One**
- 1,100 lbs./year
- 700 lbs./year
- 300 lbs./year

**Cuts**
- 900 lbs./year
- 3,600 lbs./year

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