

US EPA ARCHIVE DOCUMENT



## STUDENT ACTIVITY #1

# Using the Global Warming Wheel Card

**Purpose:** This activity will introduce you to the Global Warming Wheel Card.

**Time required:** 15–20 or 30–40 minutes (depending on how much introduction to the topic is needed)

**Equipment:**

- Four sheets of paper, from which you will need to cut out pieces, then glue them together. Try to use the heaviest paper your printer or copier will allow.
- Scissors
- Glue stick or liquid glue
- Small paper fasteners or “brads” (the brass kind that can be pushed through paper easily and have flanges that can be bent outward)
- Instructions for assembling the Global Warming Wheel Card (included in this packet)



### Now that you have made your wheel, use it to answer the following questions.

1. Mr. Smith drives to work every day. He goes about 20 miles in each direction, or 40 miles round-trip. He goes to work 5 days each week. How many miles does he drive to work in a week?

- Figure out how many miles he travels to and from work each year. \_\_\_\_\_
- Use the Global Warming Wheel Card to calculate how much carbon dioxide his car produces just during Mr. Smith’s driving to and from work. \_\_\_\_\_

2. Mr. Smith’s family also uses the car for lots of other activities, such as shopping, going to evening football games, weekend camping trips, and other places. Mr. Smith estimates that the family travels another 400 miles per week, in addition to the miles he travels to and from work.

- Use the Global Warming Wheel Card to figure out how much carbon dioxide the family produces by driving during the week. \_\_\_\_\_

3. Use the Global Warming Wheel Card to find out what Mr. Smith could do to reduce the amount of carbon dioxide that he and his family generate by driving.

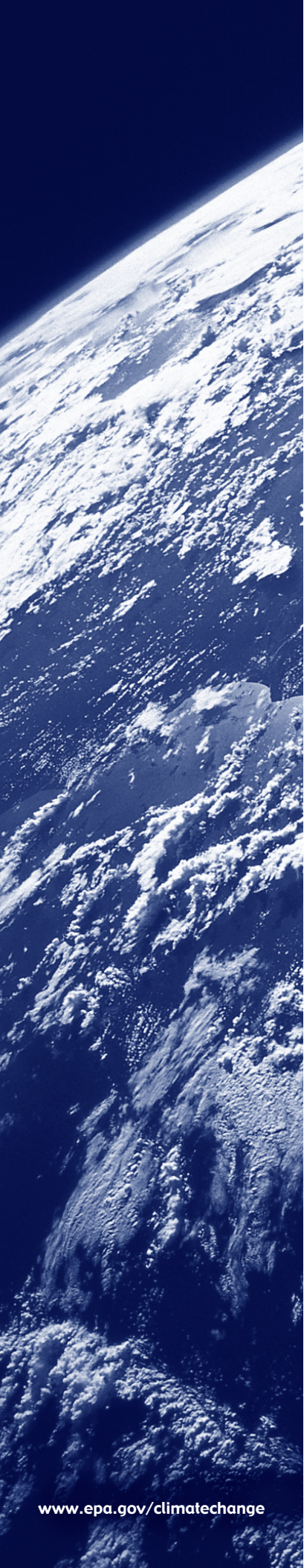
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4. What other things could the Smith family do to reduce the amount of carbon dioxide that they generate by driving? \_\_\_\_\_  
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5. The Jones family lives next door to the Smith family. Although the Smiths recycle all of their trash, the Jones family thinks it is too much trouble to recycle, so they throw every piece of paper, every plastic container, glass bottle, and aluminum can into the trash, which gets picked up and taken to the local landfill ("garbage dump").
- Use the Global Warming Wheel Card to find out the estimated level of carbon dioxide the Smith family produces every year from their waste disposal (throwing away trash). \_\_\_\_\_
  - How much carbon dioxide does the Jones family generate every year by throwing away their trash instead of recycling? \_\_\_\_\_
6. Use the Global Warming Wheel Card to find out what the Jones family could do to reduce the carbon dioxide that the family produces every year.  
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7. What other things could the Jones family do to reduce the amount of carbon dioxide that the family generates with their waste disposal habits?  
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