**Your Energy Audit**

You will conduct an energy audit of your household and compute how many kilograms of CO2 you are responsible for releasing into the atmosphere – your carbon footprint. Your investigation will focus on three major areas.

**Transportation**

1. Keep track of how many gallons of gas your family buys in the course of a month. If needed, use the handout on “how to guestimate” monthly gasoline usage.
2. Enter your family’s monthly fuel use in the table. Burning one gallon of gasoline emits 8.2 kilograms of CO2. Use the Carbon Dioxide Emission Inventory handout to do the conversions necessary to calculate your CO2 emissions.
3. Multiply your monthly emissions by 12 to calculate what you and your family’s total annual CO2 emissions are.

**Space and Water Heating**

1. Find your natural gas or fuel oil bills. You will need to find the monthly average in number of cubic feet of natural gas or oil equivalent used. Your gas bill should have the usage of therms per month over the course of a year. As heating varies from month to month, you will need to calculate the average usage per month by adding all the months together and dividing by 12.
2. If you use fuel oil, one barrel of oil (42 gallons) is equivalent to 7700 cubic feet of natural gas.
3. Enter your family’s monthly average of natural gas usage in the table. Burning one gallon of natural gas emits 0.062 kg CO2 into the atmosphere. Use the emission inventory to calculate your total emissions.
4. Multiply your monthly emissions by 12 to calculate what you and your family’s total annual CO2 emissions are.

**Electricity**

1. Find your electric bill and calculate the average monthly usage if possible. Electric bills can vary from month to month over the period of a year.
2. Enter your family’s monthly kWh average usage in the emissions table. Using one kilowatt-hour of electricity releases 1 kilogram of CO2 into the atmosphere. Use the emission inventory to calculate your total emissions.
3. Multiply your monthly emissions by 12 to calculate what your family’s total annual CO2 emissions are.

**Calculate Totals**

Find your totals beneath the last rows of your table.