**Analysis: Carbon Dioxide Emission Inventory**

Using your data from the Carbon Dioxide Emission Inventory answer the following questions.

1. How many times is your body weight released into the atmosphere every year?

Calculate the total carbon dioxide yearly emissions your family would release if your family switched to solar power for your electricity source.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Energy Use | Month | CO2 Factor | CO2 Emission | CO2 Emission per Year |
| Transportation |  | 8.2 kg CO2 per gallon |  |  |
| Space and Water Heating |  | 0.062 kg CO2 per 1 cu ft of natural gas |  |  |
| Electricity: Solar Energy |  | I kg CO2 for each kWh |  |  |

**Total CO2 kg \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. How does your carbon footprint compare before and after the solar power?
2. By how many times are your “body weight” emissions reduced by the implementation of solar power?

Take the total kg CO2 from above and then divide by your mass in kg. This is how many times your body mass is released into the atmosphere per year.

\_\_\_\_\_\_\_kg CO2  ÷ \_\_\_\_\_\_\_\_ kg = \_\_\_\_\_\_\_\_ number of times you are released into the atmosphere each year.

Subtract this number from your total in question 1.

\_\_\_\_\_\_\_\_\_\_\_\_ - \_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_ new quantity of body weight emissions

Implementing solar power might not be possible for your family at this point in your life, especially if you live in an apartment complex. However, there are things that you can do right now to reduce carbon emissions. Brain storm with a classmate to discuss methods to reduce your carbon footprint and how you will implement these solutions.

Solution 1:

How will you implement this solution?

How will this solution impact your life and the lives of others?

Solution 2:

How will you implement this solution?

How will this solution impact your life and the lives of others?