**My Ecological Footprint Is How Big????**

**Step 1: Quick review of EF definitions**

EF calculates the amount of land required to meet our \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and wants. It is typically calculated in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and 1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is equal to 10,000 m². The number of people the Earth can support is known as its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When we go beyond what the Earth can support, it is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. In comparison, when the Earth can support Earth’s population and consumption rates, it is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. If the Earth can support more than Earth’s population and consumption, it is called **surplus capacity.**

**Step 2**

Go to <http://www.earthday.org/footprint-calculator>

1. Select your location (Ontario) and “begin”
2. Click on “get started” and select an avatar
3. Complete the survey to the best of your ability

Analysis:

1. How many planets would it take to support the global population based on your consumption habits? (red number, top left corner)
2. What is the average for Ontario?
3. How many hectares do you need?
   1. Make a list of the different types of LAND you use
   2. How many tons of CO2 do you create?
4. Analyze the pie chart (bottom right). Make a list of the slice labels and percentages for each.
5. Lastly, tell me your ecological footprint.

**Step 3: Line Graph**

Complete a line graph with EF (in hectares) on the Y-axis and the initials of your classmates on

the X-axis. Make sure to complete the graph in pencil and fully label the axes and include a title.

The title should be: “EF for Individual Students in Mr. Peters’ CGC1DI”

**Step 4: Graph Analysis**

Answer the following questions in the space provided:

1. What was the average EF for the class?

2. How does this compare to the average EF for Canadians? (find out using the internet)

3. Was your own EF above, below or on the class average?

4. Was your own EF above, below, or near the Canadian average?

5. What were some of the questions in the EF calculator that most influenced the size of

your EF?

6. Brainstorm three ways you could personally reduce the size of your EF.