Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour\_\_\_\_\_

**Human Footprint Assignment**

**Task:** This project will be completed in parts. You will complete an online interactive and answer some questions, watch a documentary and take notes.

**Part I Directions:** Go to <https://www.footprintcalculator.org/> or to the direct link on my blog (open the document) to fill in the chart as you complete the interactive.

1. Click “Take the First Step”

2. Log in with your email

3. Fill in the boxes as you complete the interactive.

4. If the option to “Add details to improve accuracy” is available complete that as well.

5. You must click the arrows at the right of the screen to go to the next tab.

\*\*You may not know the exact answer for some questions, based on what you do know answer the questions to the best of your ability\*\*

**Interactive Questions**

**1. How often do you eat animal based products?**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product on the Menu** | **Your weekly consumption**(might be daily) | **Beef or lamb?** | **Pork?** | **Poultry?** | **Fish or Shellfish?** | **Eggs, Cheese, and/ or dairy?** |
| **How Often to you eat animal-based products?** |  |  |  |  |  |  |

**2. How much of the food that you eat is processed, unpackaged, or locally grown?**

|  |  |
| --- | --- |
| **How much of your diet is fresh, unpackaged foods?** | **How much of your diet is locally grown or produced?** |
|  |  |

**3. Housing**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Which type best describes your home?** | **What material is your house constructed with?** | **How many people lived in your household?** | **What is the size of your home?** | **Do you have electricity in your home?** | **How energy efficient is your home?** | **What percentage of your home’s electricity comes from renewable sources?** | **How much trash do you generate?** |
|  |  |  |  |  |  |  |  |

**4. Travel**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **How far do you travel each week?** | **What average fuel economy of vehicles you use most often?** (May want to ask your parents how much gas is used each week) | **How often do you carpool?** (Share rides with other people) | **How far do you travel on public transportation each week?** (Do you take the bus? | **How many hours do you fly each year?** |
|  |  |  | Train-Bus-  |  |

**5. Results**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **What is your personal Earth Overshoot Day** | **How many Earths do you need?** | **Look at the “By Land Type” What do you use the most of?** | **By consumption Category. What do you use the most of?** | **What is your ecological footprint?** | **Your carbon footprint? (CO2 emissions)** | **Your carbon footprint (% of your total Ecological footprint)** |
|  |  |  |  |  |  |  |

**Part II Directions:** Answer the follow up questions after completing the chart and returning your computer to the cart.

1. Overall, what did you learn from this activity?

2. Did any of the information in this activity surprise you? Explain:

3. Are you curious about anything as a result of this activity?

4. After completing this online interactive, what do you think of when you hear the term “human footprint”?

5. Make a connection to “The Human Footprint” documentary-

**Part III Directions:** Watch the documentary and take notes as instructed. <https://www.youtube.com/watch?v=VcxQjGPDKHE&list=PLfEPWuMR8I9ctnB1VmkDPaltRpWjfkkfT>

1. How many people are currently on the planet?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. How much of the world’s land surface is unaffected by humans?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. How many diapers will we go through in our first 2 1/2 years of life?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. How many trees are needed to make the padding in a diaper for 1 child over 21/2 years?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. How many diapers are thrown away in the U.S. every year?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. How long could it take for those diapers to biodegrade?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. How much milk can one cow produce each day?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. How many pints of milk does an average human consume in a year?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. How many chickens will we consume in a lifetime?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. How many eggs will we eat in a year?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. How many potatoes does an average person eat in a lifetime?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. How many loaves of bread does a person eat in a lifetime?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. As a nation, how many hot dogs do we eat on the 4th of July?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. How many pounds of candy do we consume each year?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. How many pounds of sugar are found in a lifetime supply of candy bars?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. Number of bananas in a lifetime supply: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. Number of oranges peeled in a lifetime: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18. How many cans of soda will the average American consume in a lifetime?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

19. How many gallons of water does a lifetime of showers use?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

20. In a lifetime, you will use:

 \_\_\_\_\_\_\_\_\_\_\_\_ tubes of toothpaste

 \_\_\_\_\_\_\_\_\_\_\_\_ bars of soap

 \_\_\_\_\_\_\_\_\_\_\_\_ bottles of shampoo

21. As a nation, how many tons of waste do we generate each year?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

22. How many pounds of laundry does the average American generate annually?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

23. To build an average home you need:

 More than \_\_\_\_\_\_\_\_\_\_ trees to supply the wood framing

 \_\_\_\_\_\_\_\_\_ sq. feet of siding

 \_\_\_\_\_\_\_\_\_ tons of concrete

 \_\_\_\_\_\_\_\_\_ pounds of copper piping

 \_\_\_\_\_\_\_\_\_ gallons of paint

24. How much coal will you burn through in a lifetime just by blow drying your hair?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

25. What does coal release into the atmosphere when it’s burned?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

26. How many tons of carbon dioxide emissions does the average American create per year?\_\_\_\_\_\_\_\_\_\_\_\_\_

27. What is the worldwide average of CO2 emissions?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

28. How many pounds of fossil fuels does it take to create a desktop computer?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

29. How much CO2 is released into the atmosphere from cutting down trees to make newspapers?\_\_\_\_\_\_\_\_\_

30. How many Christmas trees do we cut down each year?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

31. On average, how many miles do we drive in a year?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

32. How much carbon do we each generate over a lifetime?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_