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

**Human Footprint Project**

**Task:** This project will be completed in parts. You will complete an online interactive and answer some questions, watch a documentary and take notes; the final step will be to create an informational poster.

**Part I Directions:** Go to <http://channel.nationalgeographic.com/channel/human-footprint/consumption-interactive.html> or to the direct link on my blog to fill in the chart as you complete the interactive.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Product on the Menu** | **Your weekly consumption**(might be daily) | **Your lifetime consumption** | **The average consumption in the United States** | **One interesting fact** |
| **Eggs** |  |  |  |  |
| **Newspaper** |  |  |  |  |
| **Milk** |  |  |  |  |
| **Tires (miles)** |  |  |  |  |
| **Bananas** |  |  |  |  |
| **Soda pop** |  |  |  |  |
| **Showers/baths** |  |  |  |  |
| **Potatoes** |  |  |  |  |
| **Diapers** |  |  |  |  |
| **Bread** |  |  |  |  |

**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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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5. Make a prediction about “The Human Footprint” documentary- what will it be about? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**\_\_\_\_\_ teacher check-in**

**Part III Directions:** Watch the documentary and take notes as instructed.

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?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part IV Directions:** Use the rubric below to create a “footprint” poster that showcases the information form the online interactive and the movie. You may work with a partner under the following conditions 1. Teacher gives you his permission 2. It is under your own risk, you must decide how you will have this ready by Monday.

**\_\_\_\_\_ teacher check-in**

|  |  |  |  |
| --- | --- | --- | --- |
| **Poster** **Requirement** | **Points Possible** | **Student Checklist** | **Teacher Checklist** |
| Part I of this activity sheet is completed | **5** |  |  |
| Part II of this activity sheet is completed | **5** |  |  |
| Part III of this activity sheet is completed | **5** |  |  |
| There are two giant footprints on the poster; one for you and one for your partner (or both for you if working alone) | **5** |  |  |
| The information inside of one footprint shows your lifetime consumption of the items listed and three colored pictures. | **7.5** |  |  |
| The information inside of the other footprint shows your partner’s lifetime consumption of the items listed (or split your own if working alone) and three colored pictures | **7.5** |  |  |
| The average consumption in the United States of all of the items is listed somewhere on the poster outside of the footprints and three colored pictures | **5** |  |  |
| At least **five** movie facts are listed somewhere on the poster outside of the footprints and three colored pictures. | **5** |  |  |
| The poster is neat, complete, colorful, and interesting. (You must use the entire poster) | **2.5** |  |  |
| There are no spelling or grammar errors | **2.5** |  |  |

**Points Earned: \_\_\_\_\_\_\_\_\_**

 **50**