## GUARDIANS OF THE FOOD GALAXY

## LESSON 11

## LESSON 11: Carbon Footprint - Meal Planning Activity Worksheet

## Animal - Based Eating Pattern

Directions: Pretend you are planning your family's meals for the next 7 days.
Remember: Everyone in your family follows an Animal - Based - eating pattern! As a group, first decide on five foods you'd like to eat for each meal.

Choose your foods from the list on the Carbon Footprint Calculator: https://harvard-foodprint-calculator.github.io/

Second, decide how often in the next week you'd like to eat that food. Third, use the Carbon Footprint Calculator handout to find the amount of greenhouse gases and the equivalent miles.

Animal-based Foods
Can include red meat in every meal.
**Red meat includes cows, sheep, goats, deer, and buffalo.


Family Name:

Breakfast


## Animal - Based Eating Pattern

Lunch

| Food Item |  |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Total amount of outputs:

| kg of Carbon | gal of Gas | g of Nitrogen | lb of Fertilizer | L of Water | \# of Bathtubs |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |

## Animal - Based Eating Pattern

Dinner

| Food Item | Frequency |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Total amount of outputs:

| kg of Carbon | gal of Gas | g of Nitrogen | lb of Fertilizer | L of Water | \# of Bathtubs |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |

## GRAND TOTAL

Add your total amount for
breakfast, lunch and dinner
kg Carbon = $\qquad$ gallons of gasoline
$\underline{\square}$ LWater = $\qquad$ bathtubs of water

## LESSON 11: Carbon Footprint - Meal Planning Activity Worksheet

## Plant Forward Eating Pattern

Directions: Pretend you are planning your family's meals for the next 7 days. Remember: Everyone in your family follows an Plant Forward - eating.pattern! As a group, first decide on five foods you'd like to eat for each meal. Choose your foods from the list on the Carbon Footprint Calculator: https://harvard-foodprint-calculator.github.io/

Second, decide how often in the next week you'd like to eat that food. Third, use the Carbon Footprint Calculator handout to find the amount of greenhouse gases and the equivalent miles.

## Plant Forward

 Includes small quantities of animal foods with no red meat.**Can include small amounts of fish, chicken, and eggs in every meal.

Family Name:

Breakfast

| Food Item | Frequency |  |
| :--- | :--- | :--- |
| ( |  |  |

## Plant Forward Eating Pattern

Lunch


## Plant Forward Eating Pattern

Dinner


[^0]
## LESSON 11: Carbon Footprint - Meal Planning Activity Worksheet

## Plant - Based Eating Pattern

Directions: Pretend you are planning your family's meals for the next 7 days. Remember: Everyone in your family follows an Plant - Based eating.pattern! As a group, first decide on five foods you'd like to eat for each meal. Choose your foods from the list on the Carbon Footprint Calculator: https://harvard-foodprint-calculator.github.io/

Second, decide how often in the next week you'd like to eat that food. Third, use the Carbon Footprint Calculator handout to find the amount of greenhouse gases and the equivalent miles.

## Plant-based Foods

Does not include animal products. More whole foods that are not processed as much.


Family Name:

Breakfast


## Plant - Based Eating Pattern

Lunch


## Plant - Based Eating Pattern

Dinner

| Food Item |  |  | Frequency |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Total amount of outputs: |  |  |  |  |  |
| kg of Carbon | gal of Gas | g of Nitrogen | Ib of Fertilizer | L of Water | \# of Bathtubs |
|  |  |  |  |  |  |

[^1]
## LESSON 11: Carbon Footprint

What is this bar graph telling us?


Directions - Use the figure to answer the questions on the next page

## LESSON 11: Carbon Footprint What is this bar graph telling us?

## Directions - Use the figure to answer the following questions

1. What does each of the colors on the bar mean?
a. What does the green part of the bar mean?
b. What does the brown part of the bar mean?
c. What does the orange part of the bar mean?
d. What does the blue part of the bar mean?
e. What does the red part of the bar mean?
f. What does the yellow part of the bar mean?
g. What does the grey part of the bar mean?
2. What do you observe as the main differences between the different foods?
$\qquad$
$\qquad$
3. What foods have the highest greenhouse gas emissions?
$\qquad$
$\qquad$
4. What foods have the least greenhouse gas emissions?
5. Which part of the food system makes up the most emissions?
6. Which part of the food system makes up the least emissions?

[^0]:    98

[^1]:    101

