PEOPLE, PLANTS, AND THE PLANET

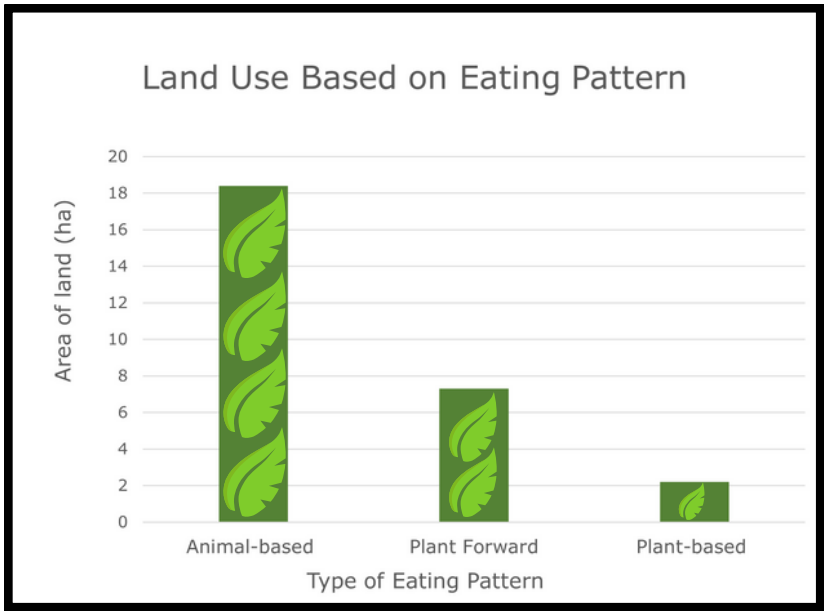
LESSON 7

Resources Used Based on the Eating Pattern

(Ha) means hectare

1 hectare = 1000m^2
So... 5 hectares = 5000m^2 of land!

1 hectare is the size of almost 3 football fields!



1. Area of land used for an Animal-based eating pattern: _____ ha
2. Bonus Question: How many football fields is this? _____
3. Area of land used for a Plant Forward eating pattern: _____ha
4. Area of land used for an Plant-based eating pattern: _____ ha
5. Bonus Question: How many football fields is this? _____
6. Which eating pattern uses the least amount of land?

   _____

7. Which eating pattern uses the most land? Why do you think it uses the most?

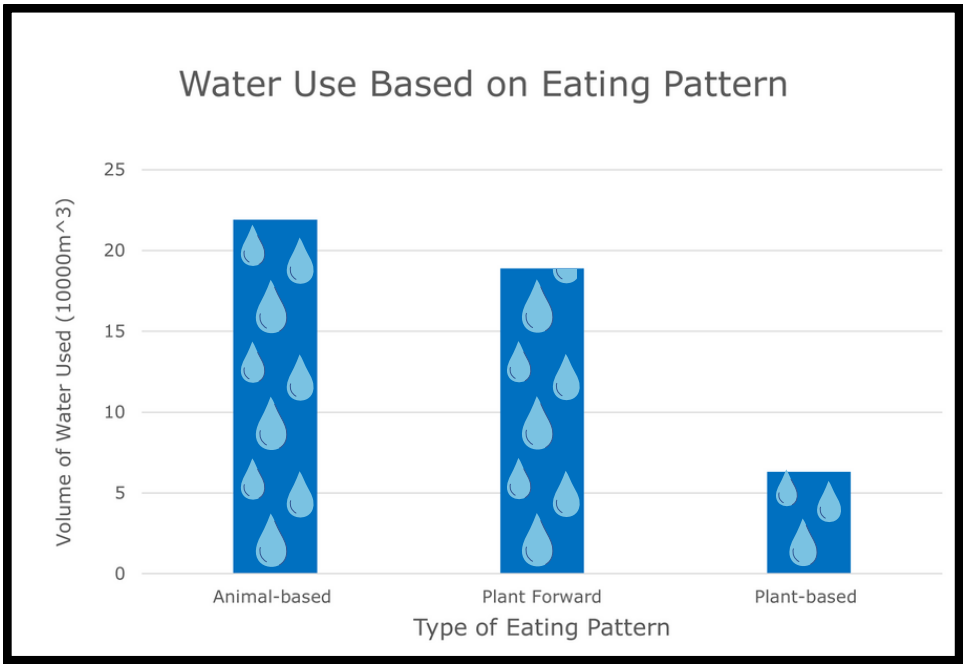
   _____

   _____

Resources Used Based on the Eating Pattern

$1000m^3$ is how we measure <u>volume</u> of water.

$1000m^3$ of water would fill 8,000 pools!



1. Volume of water used for an Animal-based eating pattern:
   _____ $1000m^3$
2. Volume of water used for a Plant Forward eating pattern:
   _____ $1000m^3$
3. Volume of water used for an Plant-based eating pattern:
   _____ $1000m^3$
4. Which eating pattern uses the least amount of water?

   _____

5. Which eating pattern uses the most water? Why do you think it uses the most?

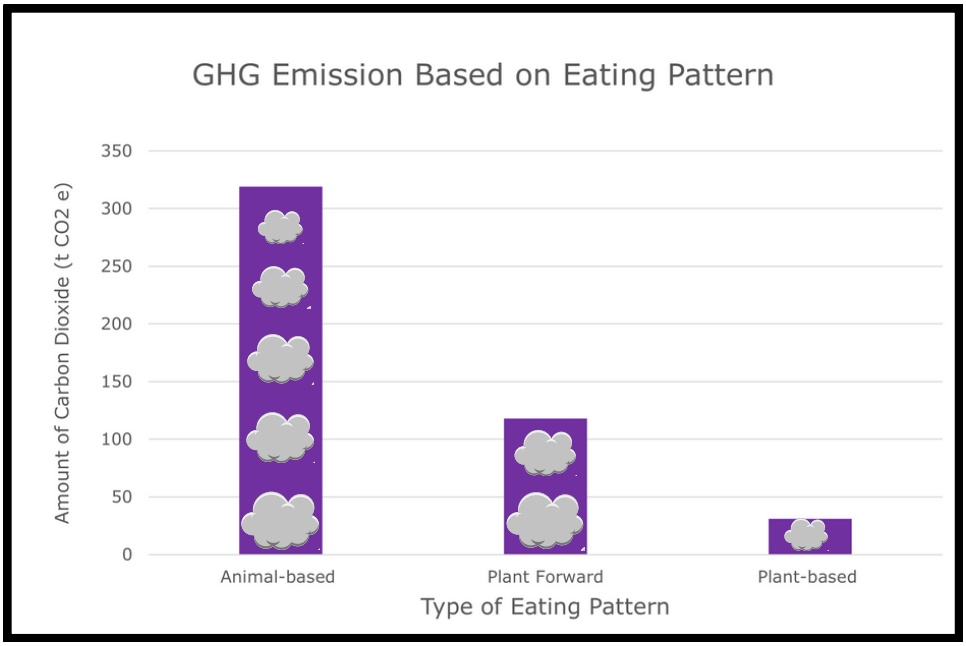
   _____

   _____

Resources Used Based on the Eating Pattern

t CO2 e means tons of carbon dioxide.

1 ton of CO2 would fill 200 balloons!



1. Volume of CO2 used for an Animal-based eating pattern:
   _____ tons of CO_2
2. Volume of CO2 used for a Plant Forward eating pattern:
   _____ tons of CO_2
3. Volume of CO2 used for an Plant-based eating pattern:
   _____ tons of CO_2

4. Which eating pattern produces the least amount of the greenhouse gas, CO2?

   _____

5. Which eating pattern produces the most amount of the greenhouse gas, CO2? Why do you think it produces the most?

   _____

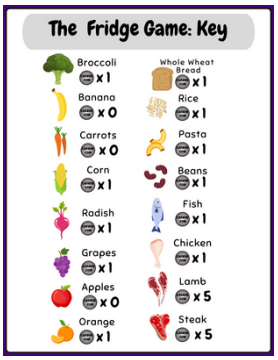
   _____

THE FRIDGE GAME

Instructions

GAME CONTENTS

Game Board



Game Key Sheet

Carbon Coin paper sheet

1 die

Scissors

1 pawn per player

GAME SETUP

1. Start by cutting out the carbon coins and place them in a pile next to the Game Board
2. Whoever most recently ate an apple, goes first
3. Roll the die and use your token to move the number of spaces you rolled
4. Use the Game Key Sheet to see how many Carbon Coins to collect based on the space you land on
5. The person to the right goes next
6. Continue until someone makes it to the Finish Space!

SPECIAL SPACES

DEFORESTATION SQUARE

Go back 2 spaces (don't collect coins)

PLANT FORWARD SQUARE

Swap coins with a player of your choosing

YOU PLANTED A TREE!

Go forward 2 spaces and lose 3 Carbon Coins (don't collect coins

FINISH SPACE

You win!

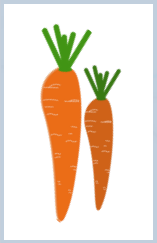
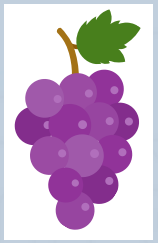
OBJECTIVE

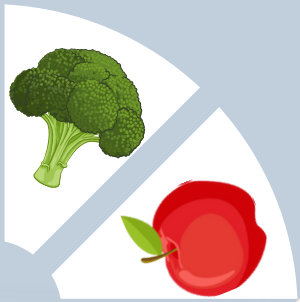
Dive into the fridge and find out how many carbon coins there are for each food. Be the first to get to the finish line with the LEAST carbon coins.

The 1st person to make it to the finish line wins the game but whoever has the least amount of Carbon Coins gets 2nd place no matter where they are on the board.

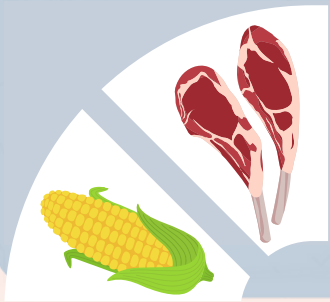
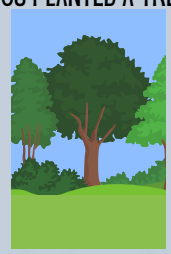
THE FRIDGE GAME

FINISH



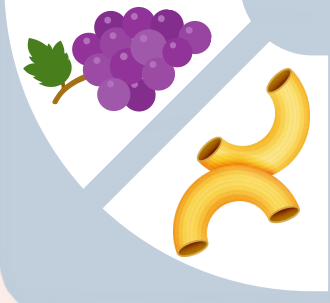
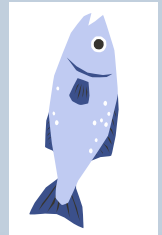
YOU PLANTED A TREE!

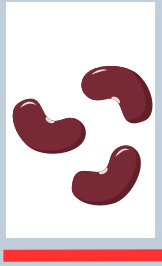
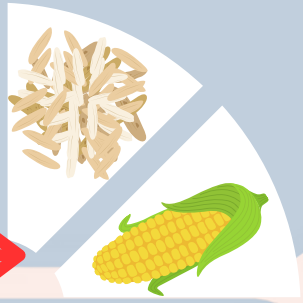
YOU SWAPPED STEAK FOR BEANS!

MOVE UP 2 SPACES

SWAP COINS WITH A PLAYER OF YOUR CHOOSING

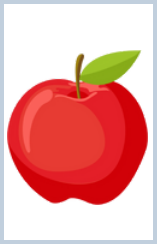



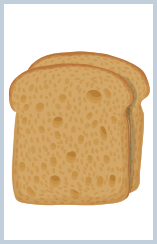
DEFORESTATION SQUARE

GO BACK 2 SPACES

START





RUTGERS
School of Environmental and Biological Sciences

The Fridge Game: Key

Broccoli

CARBON COIN x 1

Banana

CARBON COIN x 0

Carrots

CARBON COIN x 0

Corn

CARBON COIN x 1

Radish

CARBON COIN x 0

Grapes

CARBON COIN x 1

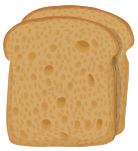
Apples

CARBON COIN x 0

Orange

CARBON COIN x 1

Whole Wheat Bread



CARBON COIN x 1

Rice

CARBON COIN x 1

Pasta

CARBON COIN x 1

Beans

CARBON COIN x 1

Fish

CARBON COIN x 3

Chicken

CARBON COIN x 3

Lamb

CARBON COIN x 5

Steak

CARBON COIN x 5

CARBON
COIN

CARBON
COIN