

Name \_\_\_\_\_

**Vocabulary:** Carbon dioxide, greenhouse gases

**Introductory Discussion**

The cubes are all 3x3x3 inches but are weighted according to how much CO<sub>2</sub> (weight equivalent) is produced to make just 2.5 oz of the food. How much CO<sub>2</sub> do you think is produced to make these foods?

Hamburger \_\_\_\_\_

How about two slices of bread? \_\_\_\_\_

One boiled egg? \_\_\_\_\_

**Food Weight (just one scale)**

Each group of three students will designate one person to select a Food Cube and weigh it at the front. That student enters the data into the data table on the teachers' computer that's projected onto a white board. Then the student brings the cube back to their table; after everyone has felt the weight, pass it to the next table.

Complete JUST the CO<sub>2</sub> Weight column of the data table

**DATA TABLE**

Item	CO <sub>2</sub> Weight/g	What does it need to grow?
Spinach		
Potato		
Wheat Bread		
Noodles		
Black Beans		
Rice		
Peanuts		
Egg		

Chicken		
Pork		
Cheese		
Beef/hamburger		

**Study your weight data**

1. What do you

notice? \_\_\_\_\_

2. Choose from these three to answer: meat, vegetables, dairy products

Which types of food have low CO<sub>2</sub> emissions \_\_\_\_\_

Which have high emissions? \_\_\_\_\_

Which are in between ? \_\_\_\_\_

**Watch the movie Eat Less Meat** <https://www.youtube.com/watch?v=uh-tECeaMCA>

Vocabulary: define

carnivore \_\_\_\_\_

deforestation \_\_\_\_\_

livestock \_\_\_\_\_

methane \_\_\_\_\_

poultry \_\_\_\_\_

3. One cause of deforestation is \_\_\_\_\_

4. Beef needs \_\_\_\_\_ x more land than pigs or chicken

5. And beef makes \_\_\_\_\_ x more GHG emissions

6. Livestock is responsible for \_\_\_\_\_% of GHGs From

\_\_\_\_\_,  
\_\_\_\_\_

7. A single cow produces up to \_\_\_\_\_ liters of Methane

per \_\_\_\_\_

**Review Data Table – Explain/Elaborate/Evaluate**

Teacher will discuss how to complete the “What does it need” column

8. Which was the worst food? \_\_\_\_\_ Which was the best?

\_\_\_\_\_

9. The worst had both high \_\_\_\_\_ and high \_\_\_\_\_

10. What kind of diet do these findings suggest? What would YOU recommend to your family and friends? \_\_\_\_\_

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