







DID YOU KNOW?



amount of meat, dairy and eggs we ate, it would reduce the world's food climate impact by one quarter.

If we all halved the

Putting the oven on for 10 minutes causes about eight times as much greenhouse gas emissions as boiling a kettle. If food waste was a country, it would be 3rd largest contributor to climate change. Did you know that in the UK 70% of food waste happens in the home?

HANDS ON ACTIVITY

Our mission... is to calculate the greenhouse gas emissions of your lunch.

You will need... a pencil and a piece of paper

Optional: download the full set of Climate Food Flashcards here

https://www.takeabitecc.org/flashcards.html What to do...

1. First, choose the ingredients to build your own lunch from the options in the "Setting up your lunch" box on the supporting page. *Choose one bread option, one protein option, one salad option and one fruit option.* 2. Now, use the information on each food "card" to calculate the total climate impact of your lunch: add up the "Emissions" gCO₂e numbers (in black) for each food you chose.

Bonus Challenge... Could you have chosen different options to make a more climate-friendly (lower gCO2e) healthy meal?

Don't forget to take a picture of your meal choice and share with us using #TakeABiteAtHome!

I WANT MORE

Take a look at these extra resources:

- The Eatwell Guide https://tinyurl.com/y8aj5o6j
- Carbon Footprint Calculator https://tinyurl.com/st7z8xs
- Food wastage footprint https://tinyurl.com/mwmj9cr

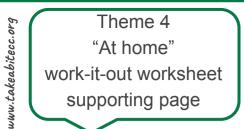
Find all these links and more on our web page https://www.takeabitecc.org/athome

WHO WE ARE

Hi all, I'm Carla Martins. I am a nutritionist and I also trained in gastronomy. My main theme of research is "cooking as a tool to promote healthy and sustainable eating", at the University of Manchester.



Online supporting video available 12pm Tuesday 23th June.

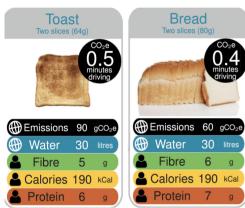






SETTING UP YOUR LUNCH

1. Choose one carbohydrate option:



Tomato

Water

Protein

2

3

0

Tomato

Emissions 13 gCO₂e

Calories 11 kCal

Protein 0

Fibre

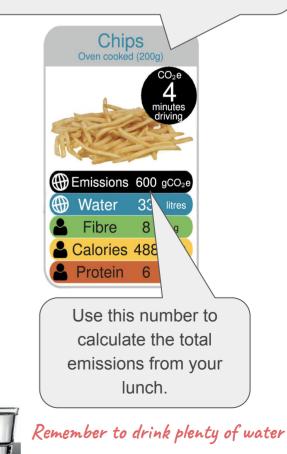
Water 0.8 litres

3

2. Choose one protein option: **Baked beans** Steak Cheese Portion, fried (100a From a can (200 Emissions 4723 gCO26 Emissions 430 gCO₂e Emissions 1590 gCO26 H Water 668 litre Water 115 litres H Water 139 litres 25 0 Fibre Fibre 0 Fibre Calories 162 kCal Calories 416 KCal Calories 242 kCal Protein 10 Protein 25 Protein 30 3. Choose one vegetable option: 4. Choose one fruit option: Lettuce Strawberries Banana Strawberries X 0.3 Emissions 44 gCO2e Emissions 1002gCO2e Emissions 136 gCO₂e Emissions 55 gCO2e Emissions 408 gCO₂e Water H Water 14 litres H Water 17 litres Water 43 litres 0.8 litres 4 litres Fibre 2 Fibre 3 Fibre 3 Fibre g Calories 3 kCa Calories 24 kCal Calories 24 kCal Calories 65 kCal Calories 11 kCal Protein 0 Protein Protein 0 Protein 0

CALCULATING THE EMISSIONS OF YOUR LUNCH!

If you are using a different portion size then you will need to change the greenhouse gas emissions value to take this into account.



Theme 4 "At home" Work-it-out worksheet. Bonus page





HANDS ON ACTIVITY

Our mission... is to calculate the greenhouse gas emissions of your **favourite dish**.

You will need... ingredients list and quantities of your favourite recipe*, a pencil, a piece of paper, a calculator (optional) and the Climate Food Flashcards.

Download the Climate Food Flashcards here: https://www.takeabitecc.org/flashcards.html

* It can be your parent's signature recipe, or a traditional family recipe, or it can be a sandwich, or a dessert! What recipe brings you the best memories?

Who can participate? You can play it on your own or with your family.

What to do...

- 1. First, using the Climate Food Flashcards find the cards of all the recipe ingredients.
- 2. Find the greenhouse gas emissions (gCO₂e) value on each of your chosen ingredients cards, and add up all these numbers to calculate the total greenhouse gas emissions from your favorite dish. You can also play with the food calculators in the "I want more". Remember to check the portion size when you are calculating the carbon emissions: sometimes you will need to change the greenhouse gas emissions value of the ingredient to match the portion size you are using. Ask an adult to help you or drop us an email at queries@takeabitecc.org

I WANT MORE

Take a look at these extra resources:

- What's your diet's carbon footprint? https://tinyurl.com/yyhrwjk5
- The kids cook Monday https://tinyurl.com/yb64bsfl
- Food carbon emissions calculator https://tinyurl.com/ycfvpvlp

Find all these links and more on: https://www.takeabitecc.org/athome

Hi all, we've developed this activity thinking about how food and climate change is connected with our daily lives. Choosing a recipe that you like makes it easier to understand your diet's carbon emissions.



What did you learn? Is your favorite dish a good option for helping to lower greenhouse gas emissions? Can you swap ingredients from your favorite dish to decrease the greenhouse gas emissions?

Don't forget to take a picture of this adventure and share with us! #TakeABiteAtHome