

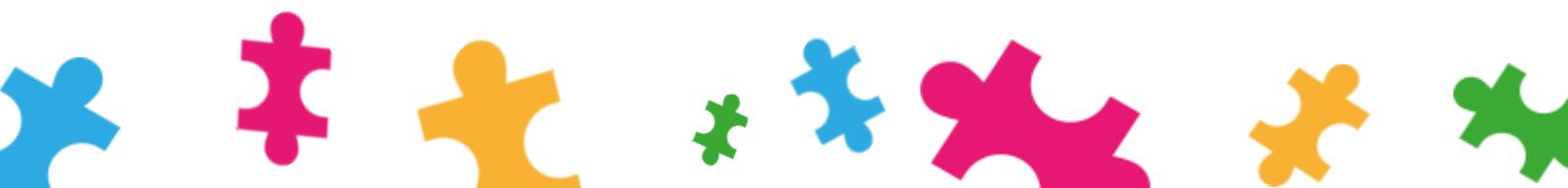


WebQuest
Advanced Level -
FOOD MILES

elaborated by UPIT



WEBQUEST TITLE:	Food Miles
WEBQUEST LEVEL	Advanced level
INTRODUCTION	
<p>The food we eat has many effects on the environment. Producing and consuming food in a sustainable way is vital to feeding a world with a growing population, while protecting our environment.</p> <p>This resource group covers the following important topics on food sustainability:</p> <ol style="list-style-type: none">1. Agriculture and the environment2. Food miles3. Food packaging and recycling4. Food waste5. Fair trade <p>Today we will look at "Food Miles" and their influence on the environment.</p>	
TASKS	
<p>Have you ever wondered where the food you eat comes from? You probably haven't even thought about bringing these foods to your table. Today you will learn all these things and more, how you can help reduce the negative impact of food transport.</p> <p>Let's find out the answers to the following questions:</p> <ul style="list-style-type: none">• Where does our food come from?• What is the impact of food transport on the environment?• What can we do to reduce this impact? <p>You will choose 5 foods from the ones you prefer, you will identify their origin and you will calculate the carbon footprint that they leave by covering the distance to you.</p> <p>You will propose at least 2 ways to reduce the impact on the environment by changing your behaviour in relation to food consumption.</p>	
PROCESS	
<p>Step 1: Where does the food come from?</p> <p>Watch the movies to get an idea of the origins of different foods:</p> <p>https://www.youtube.com/watch?v=IEeBWhfmy5c https://www.youtube.com/watch?v=PnSCciL_K3g https://www.youtube.com/watch?v=CdPRZ3wjCxA</p>	



Now that you know the source of the various foods, move on to the next step!

Step 2: What are "Food Miles"?

Food production has now become globalized, which means we can buy out-of-season food from all over the world.

The food in our homes probably came from many different countries.

This may be since the climate is different in these countries, allowing for certain foods to be cultivated in abundance. Or it could be because workers are paid less, so the food is cheaper to produce. Transporting food from abroad allows supermarkets to provide cheap products all year round. Some foods that are harvested in Romania are sent abroad to be processed; that adds "miles" to the food journey.

Watch the following movies carefully:

What are Food Miles

<https://www.youtube.com/watch?v=b7rn5hH5XN8>

Food Miles and the ecosystem

<https://www.youtube.com/watch?v=hB1XEKjNJ8Y>

Define the following terms: food miles, sustainable, globalization, fossil fuels, carbon emissions, carbon footprint, global warming, greenhouse effect

Step 3: Make a food map!

Identify the country of origin of the five products you are consuming, using the label on their packaging or the information on the internet.

Locate these countries on the map (Google Maps) and calculate the distance travelled by food to your city. Identify the means of transport involved in the journey of the chosen food!

Step 4: The impact of food "miles" on the environment

Watch the movies from the links below:

Climate change due to Food Miles

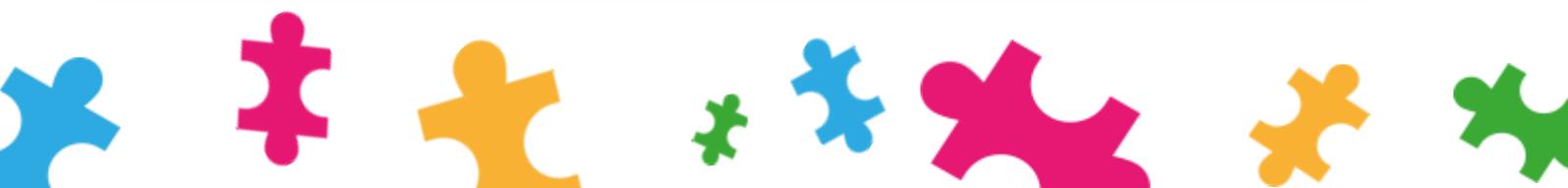
<https://www.youtube.com/watch?v=zoBhghBVGhA>

Food imprint

<https://www.youtube.com/watch?v=zoBhghBVGhA>

Write down at least 3 factors involved in the food imprint!

Find out what percentage of the pollution is due to food miles!



Step 5: How can we reduce the impact of food miles on pollution?

To reduce food miles, try to buy local food. Now, few products contain information about their carbon footprint, but most foods in supermarkets are labelled with the country of origin or production.

There are many farmers' markets in Romania. They sell directly to you, encouraging you to buy fresh local food that hasn't travelled far to be put on the table.

It's not always easy, though - locally produced food is not always better for the environment. Some foods grow in Romania only at certain times of the year. To keep them longer during their baking period, they should be stored in refrigerators to prevent them from spoiling. This uses so much electricity that bringing them from abroad can actually cause less pollution! Some foods do not grow easily in Romania and need heated greenhouses. The fuel needed to heat and light these greenhouses releases huge amounts of carbon dioxide. So, growing vegetables and fruits locally out of season can produce a higher carbon footprint than growing them in a warmer climate and transporting them to Romania.

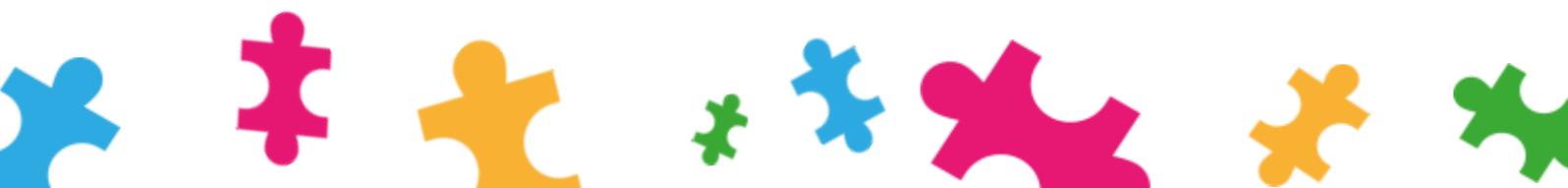
EVALUATION

Watch the following movie:

The carbon footprint of the sandwich

<https://www.youtube.com/watch?v=zoBhghBVGhA>

Make a similar calculation for the snack in your package!



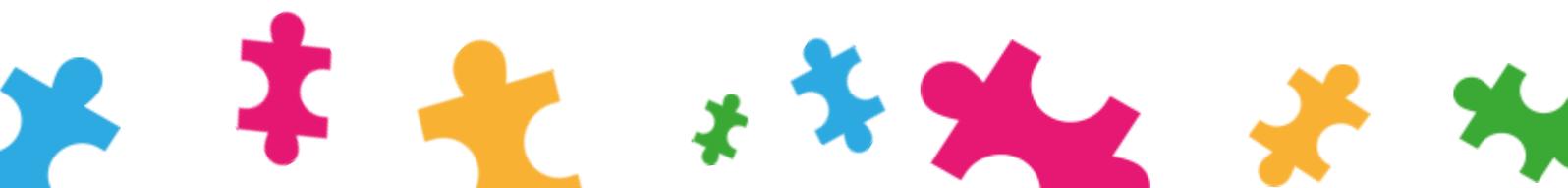


CONCLUSION

Congratulations!

Learn how food miles affect the environment and how you can reduce their impact on the environment.

Share your knowledge with your friends and family!





GRETA

Challenge-based Learning in Primary Schools for Climate Change Awareness



Istituto Comprensivo "Don Milani" di Lanciano



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