



Teachers Resources - Sustainability – Food – Answers and suggestions

Age 10-11 Activity 1 Food Journeys

Ask the children to look at the food and drink examples below and complete the chart.

The food kilometres fact sheet and the CO2 emissions fact sheet will help to complete the form.

1. Pasta from Italy
2. Strawberries from Leicestershire
3. Beef from Scotland
4. Tea from China
5. Carrots from Wales

1. Pasta – $1900\text{km} \times 0.50\text{kg (plane)} = 950\text{kg of CO}_2$
2. Strawberries – $(\text{km variable according to location}) \times 0.60 \text{ (van)} =$
3. Beef – $385\text{km} \times 0.14 \text{ (lorry)} = 53.9\text{kg of CO}_2$
4. Tea – $7788\text{km} \times 0.5 \text{ (plane)} = 3,894\text{kg of CO}_2$
5. Carrots - $204\text{km} \times 0.14 \text{ (lorry)} = 28.56\text{kg of CO}_2$

The following table shows the amount of CO2 (in grams) emitted per metric ton of freight and per km of transportation:

Air plane (air cargo), average Cargo B747 - 0.5 kg
Modern lorry - 0.14 kg
Modern Van/truck - 0.6 kg
Modern train - 0.6 kg
Modern ship (sea freight) - 0.3 kg

Age 10-11 Activity 2 Food Travel Graph

Use the totals of the carbon emissions to complete the bar graph on the template to show how far foods travel.

Age 10-11 Activity 3 Carbon Emissions Discussion

1. How could you reduce your food kilometres at home?

Use locally produced fruit and vegetables and chose fruit and vegetables that are in season.

2. Where could you grow some of your own food?

At an allotment, in the garden, in a planter, in the garden or in a planter on the windowsill,