



Transport



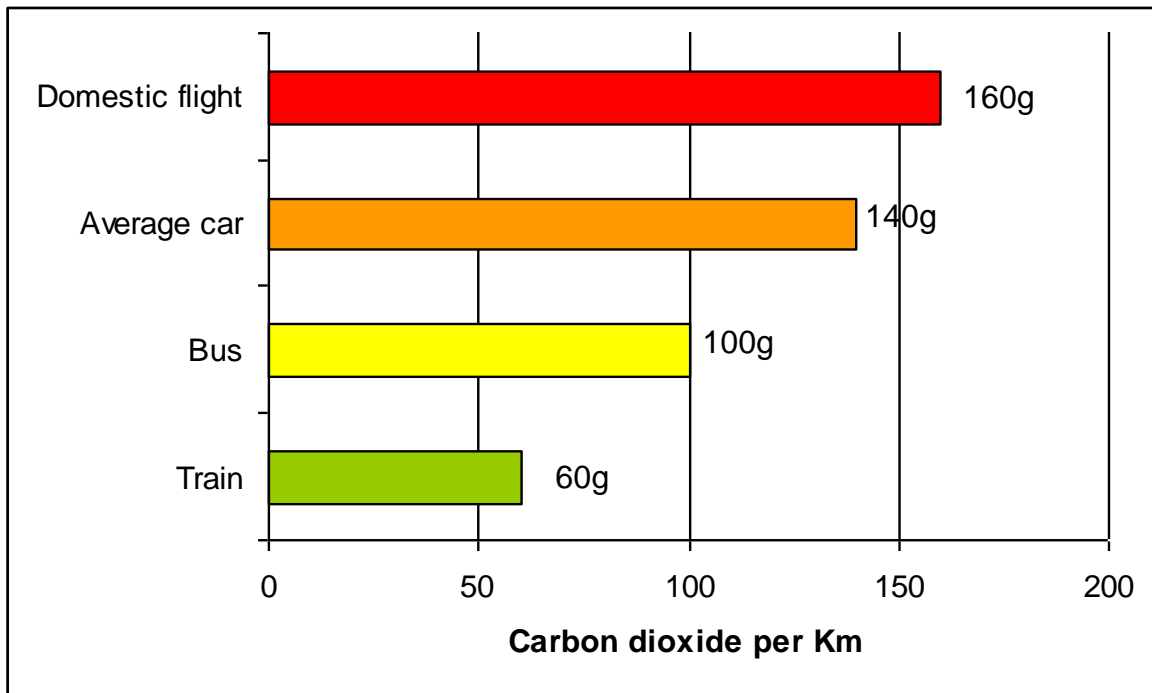
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| Activity Reference | T1.4 |
| Title: | Carbon Footprint |
| Aim: | For students to calculate the carbon footprint of different journeys depending on the type of transport used. |
| Outcome: | <p>All: Will calculate the carbon footprint of a journey.</p> <p>Most: Will calculate the carbon footprint of several journeys and different transport types.</p> <p>Some: Will also make comparisons of the same journey using different types of transport. I.e. driving to school compared to taking the bus.</p> |
| Allocated Time: | 40 minutes |
| Overview: | Students will calculate the amount of carbon emissions they make by travel. |
| Resources: | Carbon emissions information sheet with recording sheet (provided) Pencil |
| Background Information / Links: | http://www.firstgroup.com |
| Instructions: | <p>Preparation</p> <ul style="list-style-type: none">• Photocopy the 'What is your carbon footprint?' worksheet provided, enough for one per student. <p>Activity</p> <ul style="list-style-type: none">• Give students the handout and ask them to write down the places they would travel in a typical week from home eg. shops, school and what mode of transport they use to make the journeys.• Students should estimate the distance or look at a local map and write in the table provided.• They can use the graph to work out the amount of carbon dioxide (CO₂) used per kilometre of travel and write in the table. Multiplying the distance and amount of carbon dioxide used per kilometre together will give the total |

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| | <p>carbon dioxide used for that journey.</p> <ul style="list-style-type: none"> • After they have done this for each journey they add up the final column to give the total carbon dioxide used in a week. • Ask students discuss in groups or as a class the amount of carbon dioxide produced by different journeys and the environmental impact. • Using the figure they have calculated students can identify the method of travel that has the smallest environmental impact. • Ask students the question; Is this the most common transport used? If not, why? |
| <p>Higher Ability Learners and AFL:</p> | <p>Students can make comparisons of using different types of transport for the same journey. For example if they normally go to the shops by car what would be the CO₂ emissions if travelled by bus.</p> |

Resources

What is your carbon footprint?

Use the information to calculate the amount of carbon dioxide you produce as a result of travel each week.



| Location travelled from home | Type of transport used | Distance (Km) | Amount of CO ₂ per Km (using graph) | Total CO ₂ |
|------------------------------|------------------------|---------------|--|-----------------------|
| <i>School</i> | <i>Bus</i> | <i>3</i> | <i>100</i> | <i>300</i> |
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| Total | | | | |