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| Duration  Text here | Theme  Transport | Subject focus  Mathematics | Age group  5/6 |

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| Resources required   * PowerPoint * Pupil resource sheet * Group resource sheet * Pencils * Colouring pencils * Rulers * Whiteboards * Interactive Whiteboard (IWB) |
| Adult Support   * General supportwhere necessary * It may be helpful for LA children to work together and create one large bar chart as a group, with adult assistance |
| Follow up activities   * Eco Maths Carbon Costs activities * Best of Bristol Virtual Fieldtrip: On Your Bike * Anti-Car Adverts Lesson * Takeaway Carbon Poem |

**Keywords**

transport, mode, pollution, carbon, costs, health, environment, sustainable,travel, statistics, calories

**Starter**

In groups, ask pupils to write down the different modes of transport children use to travel to school each day. Write up examples on IWB. Assign each group a mode of transport. Ask pupils to create a list of positives and negatives associated with travelling by that particular mode of transport. Discuss pupils’ responses – elicit specific positives associated with active transport. HEALTH – calories burnt, COST – money saved, CLEANER – CO2 released

Pupils write down different modes of transport they see arriving at school each day. Pupils create a list of positives and negatives associated with travelling by that particular mode of transport. Pupils consider the positives and negatives in group discussions.

**Main activity**

Tell pupils that you will be challenging them to find out how healthy, costly and environmentally friendly their journeys to school were. Introduce figures for the average journey to school in the UK on IWB. Tell pupils to work out their total calories consumed, CO2 produced and money spent as a group. Model completion of process on IWB. Take group results individually – ask pupils why their results are different. What reasons cause this? Write up group results on IWB. Challenge class to find their grand totals by combining all groups. What if these results were for your whole school today? This week? This school year? How much would be spent? Pupils work together to find the totals for their group. Pupils discuss their results. Pupils work out grand totals for the whole class.

**Plenary**

Tell pupils that you will be challenging them to increase the number of active journeys they make to school. Tell children that Bristol Green Capital is encouraging schools to make a pledge at the end of each session. Introduce The Big Shift as the class pledge. Tell pupils that The Big Shift is a great way to record your active travel journeys.

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| Curriculum links  Maths   * Year 5 Number: Addition and Subtraction – Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Fractions -Solve problems involving number up to 3 decimal places. * Year 6 Number: Addition and Subtraction – Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Fractions -Solve problems involving number up to 3 decimal places. |