



Big Pedal 2021

Amazing air investigation

Level one



Objectives

To learn which modes of transport produce the most air pollution.

To discover what is causing air pollution around your school or in your local area.

Session plan

Ask the students to consider which modes of transport produce the most air pollution. Share information on how much carbon dioxide is emitted by various modes of transport (see graphic ranking modes of transport from most to least sustainable).

Ask students to think of a location for a mode of transport count.

Take students to this location following your school's safe field trip guidelines. Please follow local coronavirus guidance.

Choose a time period for the mode of transport count (eg five mins). Students record how many people pass by in that time.

Use the tally chart to observe which modes of transport most people were using.

Optional activity:

Make a natural tally to present your findings using natural materials like sticks and leaves.

At home adaptation:

For students completing this activity indoors (either at home or in the classroom), videos are available of traffic passing two different locations (one rural, one urban) which can be used for students to base their traffic count on.

www.youtube.com/watch?v=9PEu7a1QK_M

www.youtube.com/watch?v=cMQJQEPbzOM



Time needed

30 mins (indoor)
60 mins (outdoor)



Resources needed

Pencil and paper, device to watch video (indoor)



Solo/Group activity

Solo at home
Group in class

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Level one worksheet



Instructions

Have a look at what and who is using the road and pavements by your school. Make a tally to keep a record of who passes.

You could present your findings in a pictogram so draw a symbol for every tally of five for each passer-by. Or use natural materials like sticks and leaves.



Who passed by?	Tally
Person walking, jogging, running, scooting or using a wheelchair	
Person cycling	
Car or van	
Bus	
Other large vehicle (eg tractor, lorry)	

What's the best way to get to school?



Walking



Cycling



Train



Bus



Car share



Drive and park

Most sustainable



Least sustainable