School Data Challenge

The world is in a climate crisis

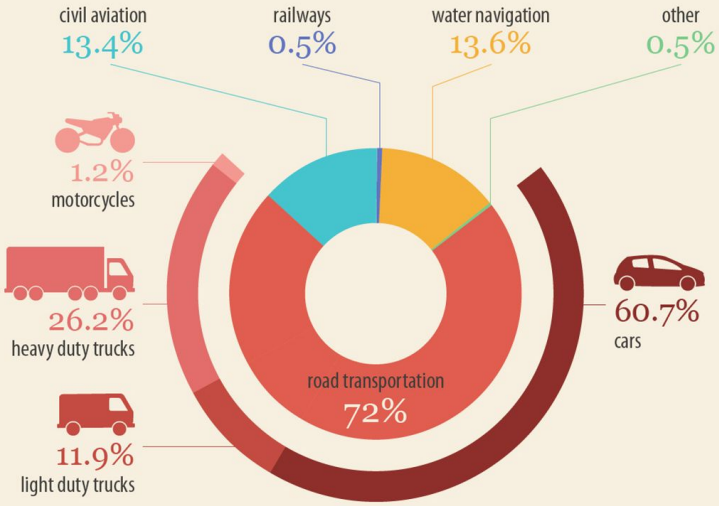
Did you know...

01 The main polluter of our planet is cars

02 1 in 4 cars on the road in the morning are on the school run

TRANSPORT CO2 EMISSIONS IN THE EU

Emissions breakdown by transport mode (2016)



Source: European Environment Agency

europarl.europ

Whoa!

Do you think this is a problem?

What do you feel about this?

These "facts" are actually "data"

Our data challenge

Find out how eco-friendly our school is

To do this we will:

1. Collect some data from our class (data collection)
2. Make some summaries of our data (data analysis)
3. Tell a story with our data (data visualisation)
4. Tell others about our results (data reporting)

01

Data Collection

How did your class get to school today?

	Car	Bus	Walk	Cycle	Train	Other
Student1						
Student4						
Student3						
Total						

How did your class get to school today?

	Car	Bus	Walk	Cycle	Train	Other
Student1	✔					
Student4		✔				
Student3				✔		
Total	1	1	0	1	0	0

02

Data Analysis

What does your data tell you?

Cars

How many students come by car?

Active

How many travel by bike or walking?

Public Transport

How many use the bus or train?

What does this mean?

03

Data Visualisation

Data is not just "maths"

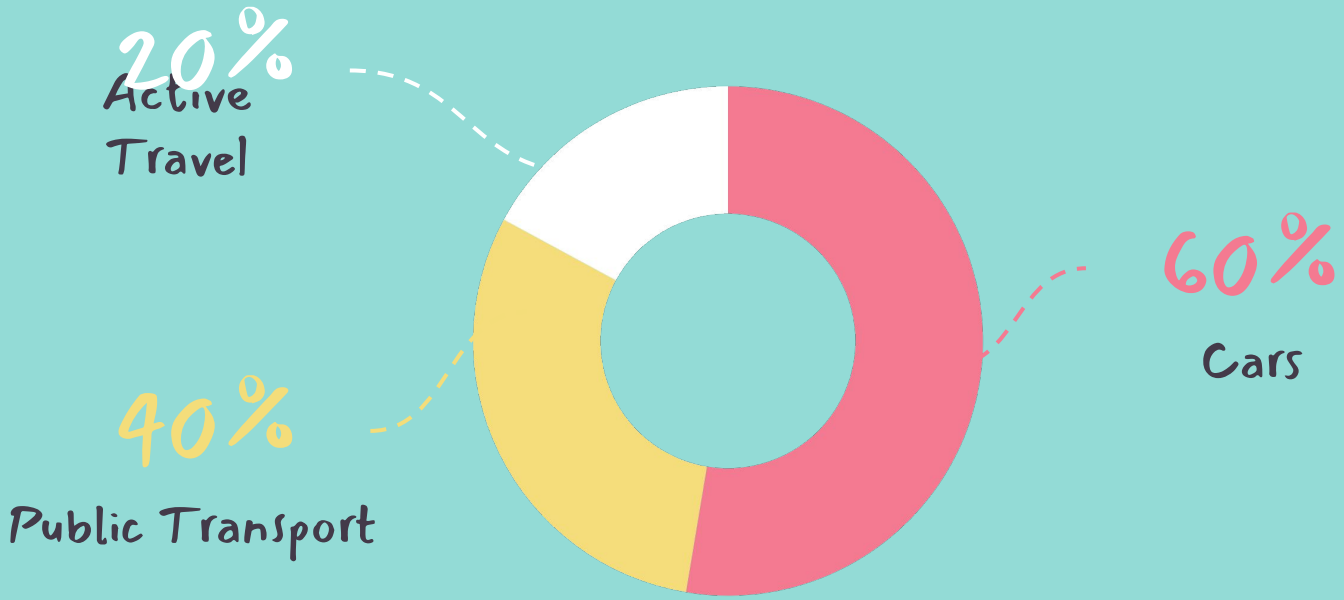
Data is about information

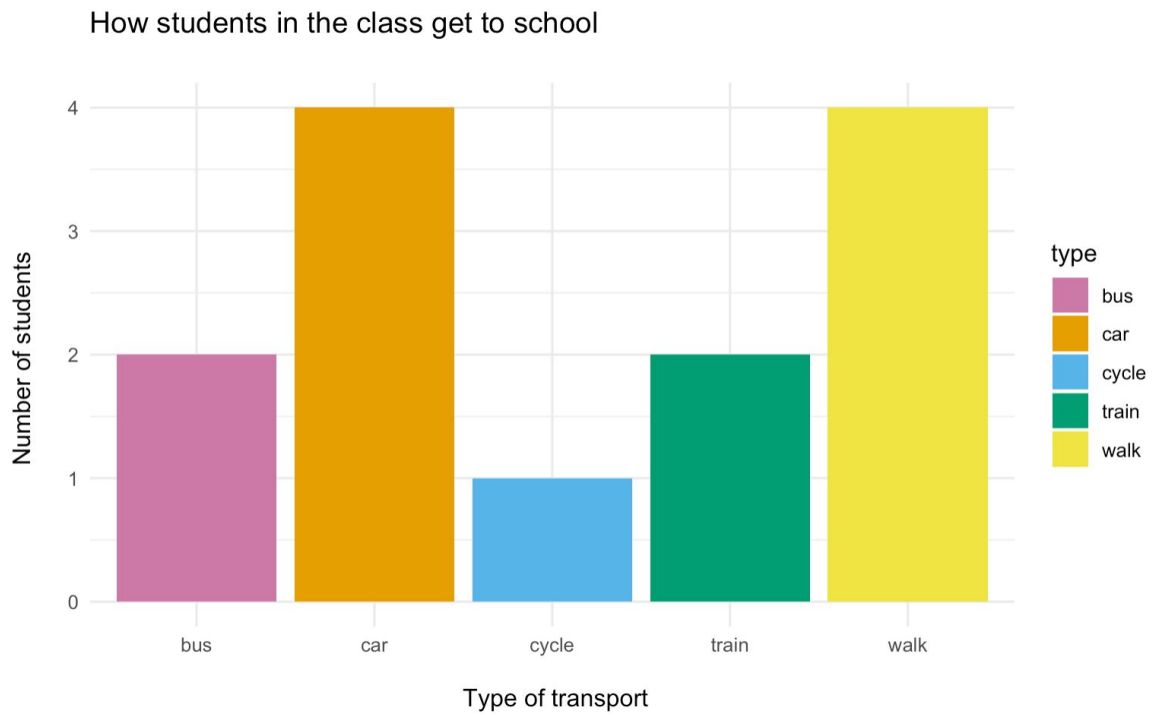
Data is about making decisions

Data is about storytelling

Stories need pictures
So does data

Use a Graph to Show Your Data




How students in the class get to school
Number of students
0
1
2
3
4
bus
car
cycle
train
walk
Type of transport
type
bus
car
cycle
train
walk

Can you think of more ways to plot your data?

Create your plot!

Pick your favourite idea and plot your data.

You don't need to be good at drawing – it just needs to show the data

04

Data Reporting

Stories need heard
So does data

Now you need to think of your story to tell

Stories need:

1. A beginning (what was your data challenge?)
2. A middle (what did you do to collect/analyse the data?)
3. An end (what did you find in your data?)

Create your data story to tell

01 Your challenge

02 Data collection

03 Data Analysis

04 Data Visualisation

Present your data report to the class

05

What next?

What have we learned from the data?

1. Does your school have a lot of car use?
2. Do you have lots of people using one particular way of getting to school?
3. Do you think we need more data?

What have we do based on the data?

1. If your school has lots of car use, how can we use the data to help the school reduce car use?
2. If our data show our school isn't polluted, how can we spread the word and encourage others?

Challenge Complete