

Lesson 4: Data for action

Computing

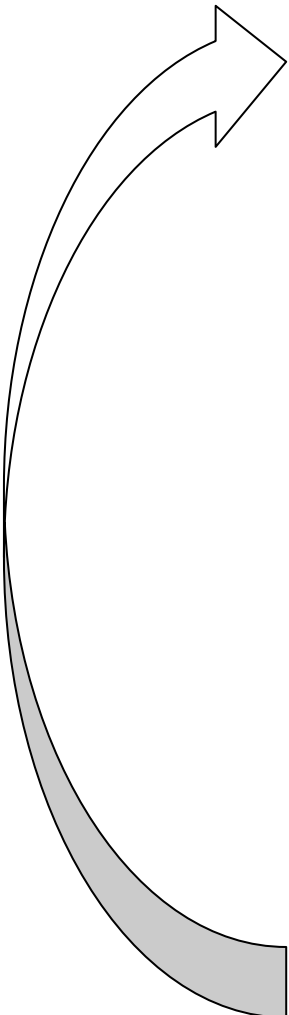
Data science

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Task 1 - The investigative cycle recap

Order the steps of the investigative cycle and match the steps to the descriptions by drawing a line to connect them.



1.	
2.	
3.	
4.	
5.	

Steps to order:

Data, problem, conclusion, plan, analysis

Predict an answer to the question(s). Find a data set or plan to collect the data.

Define the problem that needs to be solved and pose questions that can be investigated.

Answer the question and explain what the data reveals. Decide on a conclusion. Take action or form further questions to investigate.

Visualise the data. Spot any patterns, trends, correlations, or outliers. Write down your observations of what the data is showing you.

Gather the data. Once gathered, cleanse the data before moving onto the next step.



Task 2: The problem

Use the space below to pose precise questions that you can use to help find the answer to the larger question: “How can we reduce litter in our community?”.

Try and think of a minimum of two questions (add more rows to the table if you want to ask more)

Question 1	
Question 2	



Task 3: The plan

At the planning stage, we need to think first about what we predict the answers to our questions will be.

Question 1 prediction	
Question 2 prediction	



Task 4 - The data we need to collect

Use the mind map template to help you to think about all the data that we need to collect. Some lines have been added to help you get started, but you should add more if you need them (Use text boxes to add text to the mind map).

Alternatively if you find it easier to list the categories, delete the mind map and add a text box.

