

LO: To collect and present numerical data on a graph

To collect data over time about the temperature and rainfall in Leeds and Rome

To use computing skills to present this data on a variety of graphs

To compare the results of both countries' rainfall and temperature

Definitions

Data- Data is information collected from an investigation or survey. For example the email addresses of all of the children in Year 4.

Numerical Data- This is when the data is, "numbers." For example, the temperature measured in $^{\circ}\text{C}$ recorded every day in Leeds or the amount of rainfall measured in mm every day in Leeds.

Results- This is the information/numerical data that you have found out from an investigation.

Comparison- This is when we compare the data our investigation to find similarities and differences, e.g. There was more rainfall on Monday than Tuesday in Leeds.

An Investigation into the rainfall and temperature of Leeds and Rome in one week.

We are going to measure the rainfall and temperature of Leeds and Rome for one week.

We will measure the rainfall in Leeds by using a measuring tube or beaker left outside and collect the results each morning.

To find the results of the rainfall in Italy we will need to google it!

<https://www.holiday-weather.com/rome/>

To find the results of temperature in Leeds we could use an outdoor thermometer or use google to find the average temperature.

<https://www.bbc.co.uk/weather/2644688>

To find the results of temperature in Rome we could use google to find the average temperature.

<https://www.bbc.co.uk/weather/3169070>

Use this table to record the Rainfall and Temperature of Leeds and Rome for a week.

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Use the tables below to record your daily results for amount of rainfall and average temperature. Use google for information about Rome.

<u>Days of the Week</u>	<u>Rome Rainfall</u>	<u>Leeds Rainfall</u>
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
Sunday		

<u>Days of the Week</u>	<u>Rome Temperature</u>	<u>Leeds Temperature</u>
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		

If you do not want to conduct the investigation, just use these results instead for your graphs!

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Use the data below to create your graphs on Microsoft Excel

An Investigation to find the Rainfall and Temperature of Leeds and Rome

Results of Rainfall in Leeds and Rome

<u>Days of the Week</u>	<u>Rome Rainfall</u>	<u>Leeds Rainfall</u>
Monday	1	8
Tuesday	4	9
Wednesday	5	6
Thursday	4	12
Friday	2	10
Saturday	5	9
Sunday	6	11

Results of Temperature in Leeds and Rome

<u>Days of the Week</u>	<u>Rome Temperature</u>	<u>Leeds Temperature</u>
Monday	13	10
Tuesday	14	9
Wednesday	15	8
Thursday	18	3
Friday	20	5
Saturday	25	6
Sunday	26	11



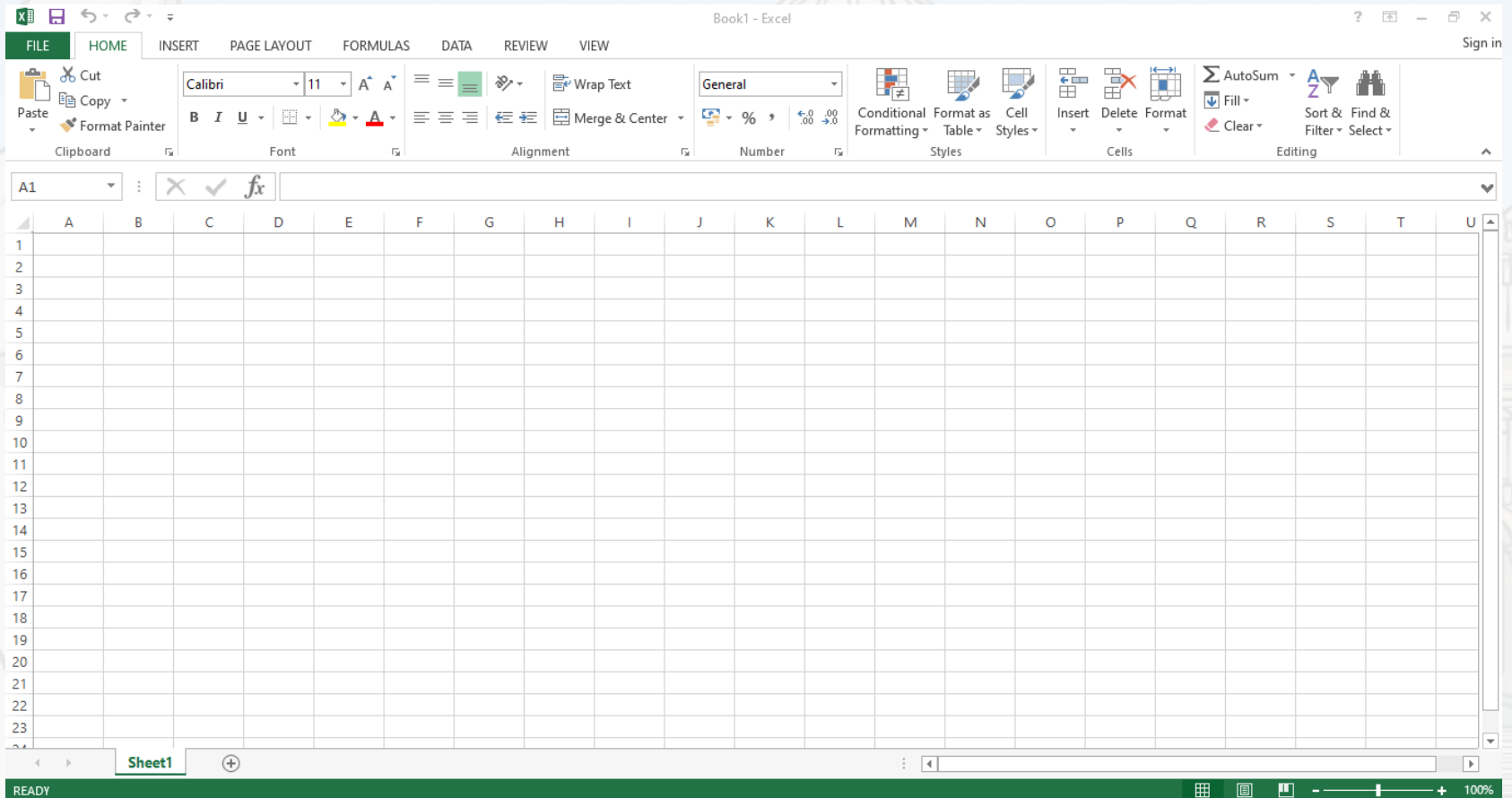
One week later.....

You might be using the given data on the sheet provided or your own data that you have collected.

We will be using the Microsoft program, "Microsoft Excel."



Your Excel program should look like this...



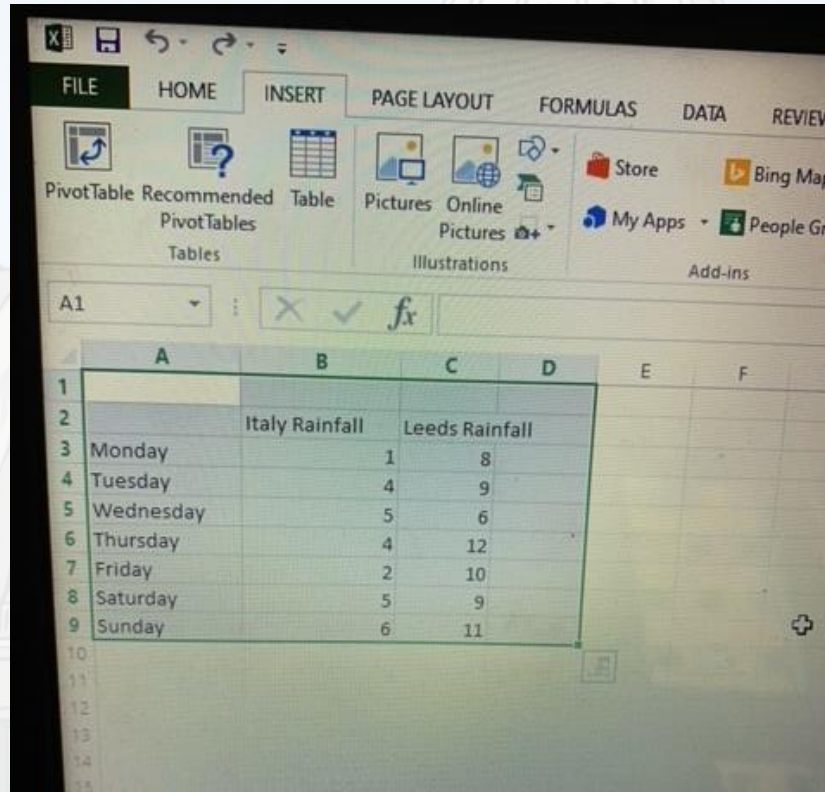
First you need to type in your headings. These will be the headings on your graphs.

	A	B	C	D
1				
2		Italy Rainfall	Leeds Rainfall	
3	Monday	1	8	
4	Tuesday	4	9	
5	Wednesday	5	6	
6	Thursday	4	12	
7	Friday	2	10	
8	Saturday	5	9	
9	Sunday	6	11	
10				
11				
12				
13				
14				

Then you need to type in the numerical data you have collected or the data from the sheet provided.

	A	B	C	D
1				
2		Italy Rainfall	Leeds Rainfall	
3	Monday	1	8	
4	Tuesday	4	9	
5	Wednesday	5	6	
6	Thursday	4	12	
7	Friday	2	10	
8	Saturday	5	9	
9	Sunday	6	11	
10				
11				
12				
13				
14				

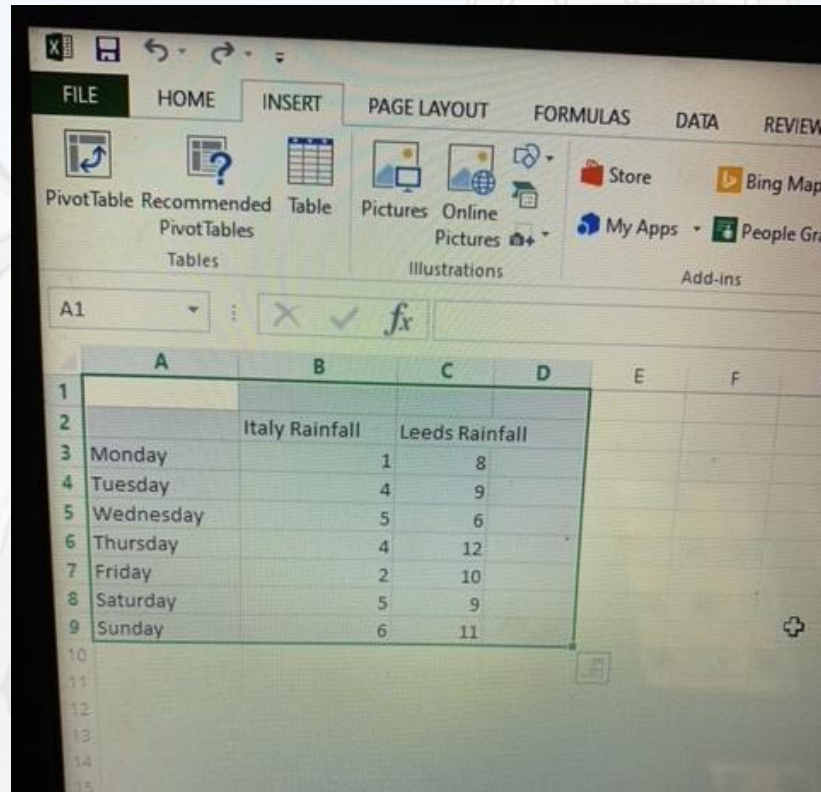
After that highlight all of the information that you have typed. This will be the data that is presented on your graph.



The screenshot shows the Microsoft Excel interface. The ribbon is set to 'INSERT', and the 'Table' group is active. A data table is selected, spanning from cell A2 to D9. The table contains the following data:

	A	B	C	D	E	F
1						
2		Italy Rainfall	Leeds Rainfall			
3	Monday		1	8		
4	Tuesday		4	9		
5	Wednesday		5	6		
6	Thursday		4	12		
7	Friday		2	10		
8	Saturday		5	9		
9	Sunday		6	11		
10						
11						
12						
13						
14						
15						

Then click on the “Insert” tab on the tool bar.


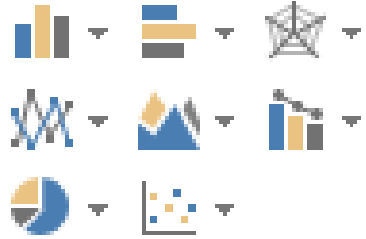

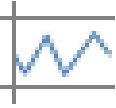
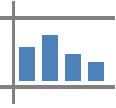
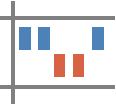


Click on the different types of graph to show the data in a variety of ways.

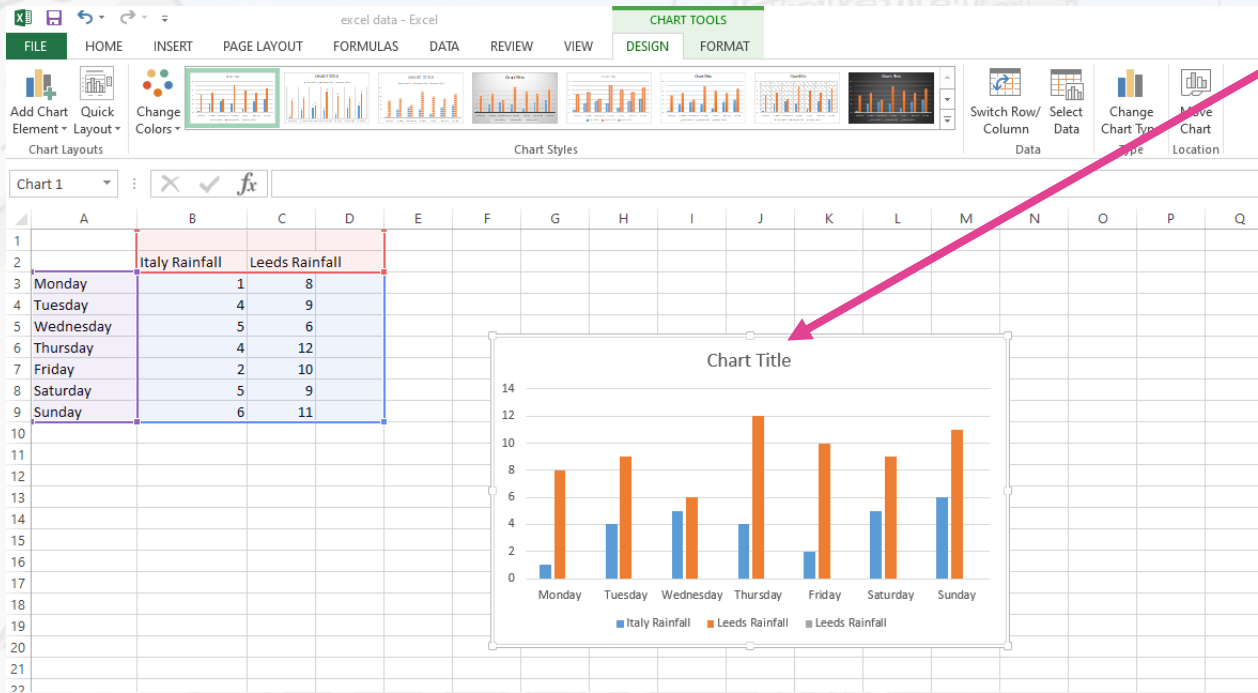
The screenshot shows the Microsoft Excel interface. The 'INSERT' ribbon is active, and the 'Charts' group is highlighted with a pink box. The spreadsheet contains the following data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1																			
2		Italy Rainfall	Leeds Rainfall																
3	Monday	1	8																
4	Tuesday	4	9																
5	Wednesday	5	6																
6	Thursday	4	12																
7	Friday	2	10																
8	Saturday	5	9																
9	Sunday	6	11																
10																			

Choose the type of graph that you will like to present your data.

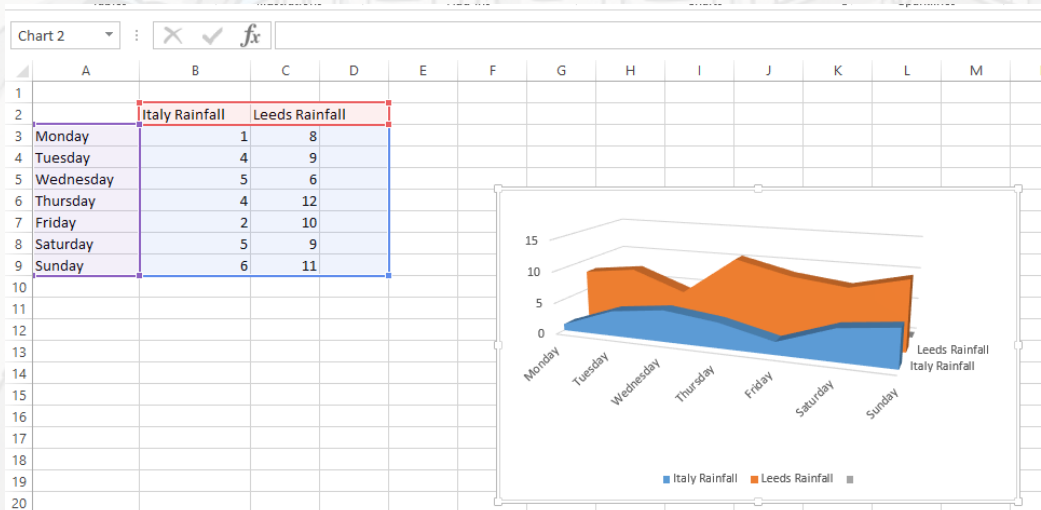
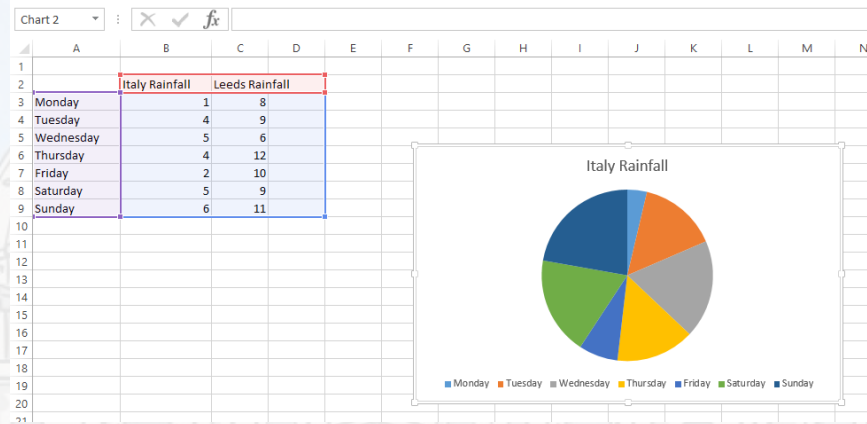
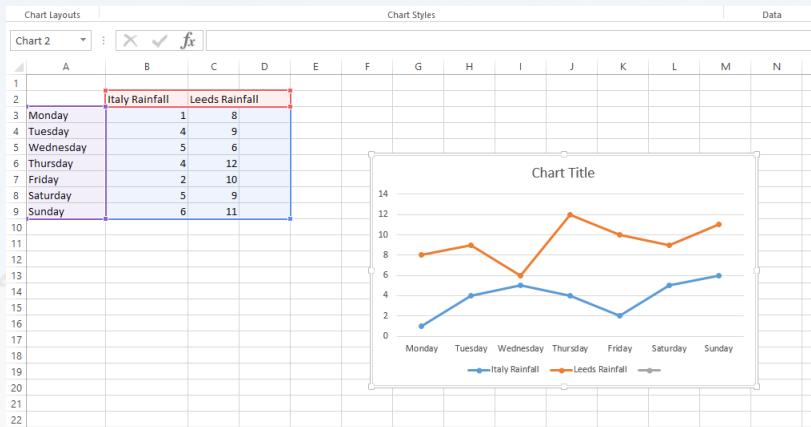
 Recommended Charts	 Charts	 PivotChart	 Line	 Column	 Win/ Loss
			Sparklines		

A graph should appear with all of your data! Can you make a variety of graphs?



Click on the Chart Title to change it to:

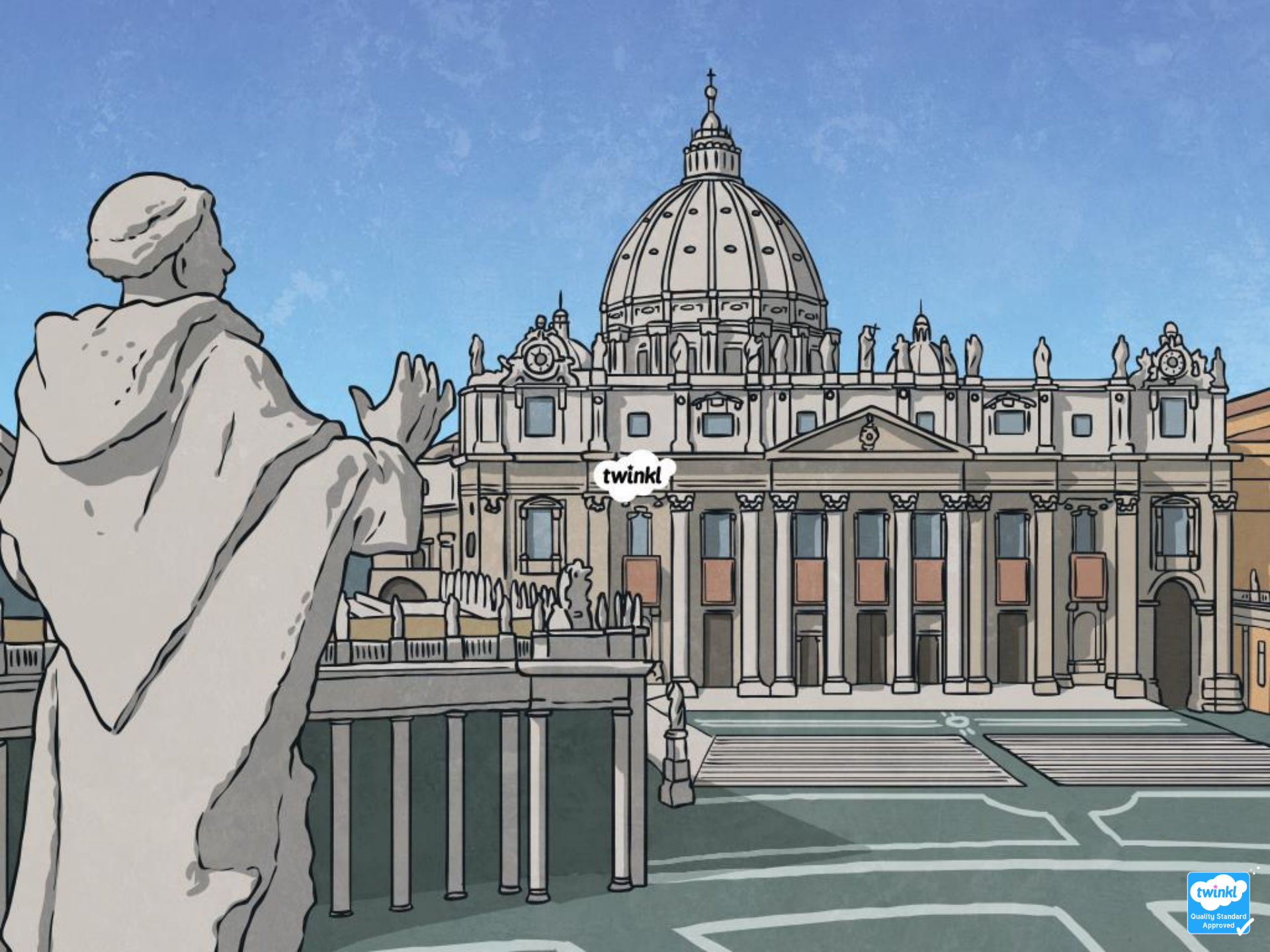
A Graph to Show Leeds and Rome's Rainfall and Temperature



Please send in your
graphs to:

Year_4@holytrinity.leeds.sch.uk

We would love to see
them 😊



twinkl