



Topic: Statistics

Year: 5

NC Strand:

What should I already know?

- How to read and interpret bar charts (discrete data)
- How to draw bar charts (discrete data)
- How to read and interpret time graphs (discrete data)
- How to draw time graphs (discrete data)
- Solve problems comparing and finding the sum and difference of information presented in in bar charts, pictograms, tables and other graphs

What will I know by the end of the unit?

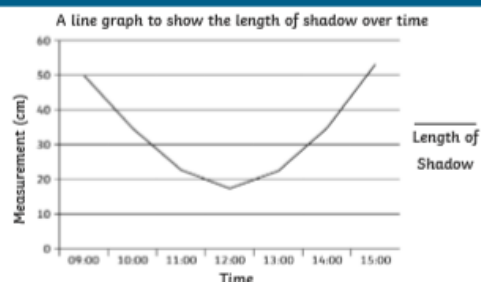
- How to read and interpret line graphs
- How to draw line graphs
- How to use line graphs to solve problems
- How to read tables to extract information and answer questions?
- How to read two way tables to extract information and answer questions
- How to complete two way tables using my addition and subtraction skills

Vocabulary

count	counting 1, 2, 3	list	a record of short pieces of information
tally	using tally marks to record counting	line graph	uses lines to join points which represent a data set
sort	put into a category of things or people with a common feature	label	word explaining the variables of a graphs
survey	in statistics, a method of collecting a sample of data by asking people questions	title	Describes the content of a graph or table
questionnaire	a set of printed or written questions with a choice of answers, devised for the purposes of a survey or statistical study	axis	real or imaginary reference line
data	data is a collection of information	axes	Plural of axis
database	a structured set of data held in a computer,	diagram	
represent	data can be represented in a diagram (or table)	most popular	Option chosen the most
group	category of things or people with a common feature	most common	Option that occurs the most
set	a set is a collection of items	least popular	Option chosen the least
table	mathematical information organised in columns and rows.	least common	Option that occurs the least
chart	a sheet of information in the form of a table, graph, or diagram.	minimum value	lowest or least amount or value
bar chart/graph	a graph using bars to show quantities or numbers so they can be easily compared.	maximum value	highest or greatest amount or value.
frequency table	a table used in statistics that organises data	outcome	the result of a single trial of a probability experiment.

Diagram and Key information

Line Graph



Line graphs are used to show changes to a measurement over time. Data shown on a line graph is continuous. Sets of points are joined together to make the line.

Frequency Table

Eye Colour	Tally	Frequency
brown		6
blue		8
green		3
grey		4
hazel		5

Tally marks are used for counting things. Each vertical line represents one unit. The fifth tally mark in a group is always drawn across the first four to make it easier to count. The frequency column is completed after all the data has been collected.

Investigate/Homework tasks

- Homework will be set from the booklet issued by your teacher
- You should complete at least 30 minutes of maths tasks on Maths Whizz (not games). Please attend help sessions if you do not have access to the internet at home
- Additional work you could complete:
 - Find out more about the meaning of the vocabulary list using <http://www.amathsdictionaryforkids.com/>
- To challenge yourself:
 - Investigate the key questions typed in red text
 - Explain the key questions typed in purple text
 - Answer the green challenge questions

Key Questions

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| <ul style="list-style-type: none"> ● Line Graphs <ul style="list-style-type: none"> ○ How can we use a ruler to support us reading values from a line graph? ○ Where do we see examples of line graphs in real life? ○ How is a line graph different from a bar chart? How is it the same? ○ How can we use multiples to support our choice of intervals on the vertical axis of a line graph? ○ How will you plan out your own heart rate experiment? What information will you need | <ul style="list-style-type: none"> ● Tables <ul style="list-style-type: none"> ○ Why are column and row headings important in a table ○ If I am finding the difference, what operation do I need to use ○ Can you find a table, either online, in a newspaper or magazine, and think of your own questions to ask about the information in the table? ○ Why is it important to put units of measure in a table? ● Two way tables <ul style="list-style-type: none"> ○ How can I calculate the total of a row/column? |
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to gather? What unit will you measure in?
How will you label your axes?

- Timetables

- o Where do you see timetables and why are they useful?
- o Why is it important to use 24-hour clock or a.m./p.m. on a timetable?

- o If I know the total, how can I calculate any missing information?
- o Can you create your own two way table using information about your family and/or friends?