

Activity: Using the table below, draw a line graph to show the price changes over the years.

| Year | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Price | $£ 2.50$ | $£ 2.00$ | $£ 2.50$ | $£ 3.00$ | $£ 3.50$ | $£ 4.00$ |

Remember to label the $Y$ axis with the price (going up in 50p) and to label the $X$ axis with the year.

Lesson 2
LO: To draw and interpret a line graph.
Can you spot the mistake on the bar graph?

* Class 2 are doing a surver.

They ask 20 children this question.
"How do you travel to school?"
Some results are shown in the pictogram.


The number of children who travel by car is
half the number who walk to school.
Complete the pictogram.

- Here is a bar graph showing the same data
as above.
Explain what mistake has been made.


Look at the table. What information would go on each axis?

| Time (minutes) | Temperature ( ${ }^{\circ} \mathrm{C}$ ) |
| :---: | :---: |
| 0 | 10 |
| 1 | 20 |
| 2 | 30 |
| 3 | 50 |
| 4 | 60 |
| 5 | 60 |

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Use the information from the table and plot on the line graph.

| Time (minules) | Temperalure ( ${ }^{\circ} \mathrm{C}$ ) |
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Activity: Using the table, plot the temperature on the line graph and answer the questions below.


Lesson 3
LO: To compare data.
What does the data below tell us?

| All Data | Percentage of <br> all pupils | Percentage of <br> primary school <br> pupils | Percentage of <br> secondary school <br> pupils |
| :--- | :---: | :---: | :---: |
| Total | 100.00 | 100.00 | 100.00 |
| Walk | 37.90 | 43.31 | 33.60 |
| Bus | 22.55 | 8.05 | 34.10 |
| Car | 34.87 | 46.72 | 25.43 |
| Cycle | 1.89 | 1.17 | 2.47 |
| Train/Tube/Tram/Metro | 1.79 | 0.21 | 3.06 |
| Other | 0.99 | 0.54 | 1.35 |

This table shows the mode of transport children take to school in England, Wales and Northern Ireland.

Using the table answer the following questions:

Which is the most popular way of getting to school for primary pupils? How about for secondary pupils?
Can you think of any reasons why these might be different?
Which is the most common way of travelling to school overall?
Can you explain why this answer is different again?
What do you think the "Other" category means?
Activity: As we cannot ask the children in our class how they travel to school I have created a table about a made up class and how they travel to school.

| How we get to school | Number of children |
| :---: | :---: |
| Walk | 7 |
| Bus | 4 |
| Car | 15 |
| Cycle/scooter | 3 |
| taxi | 2 |
| other | 1 |

What type of table would be most appropriate for this information?
Yes! A bar chart.
Here is an example of one:
Birthday of Students by Month


What information will be on the $Y$ axis? Number of children. Think about whether it is most appropriate for the numbers to go up in l's or 2 's.

What information will be on the $X$ axis? Mode of transport.
Lesson 4
Problem solving question

Can you place the numbers from 1 to 40 into this Venn diagram? How do you know where to put each number?


Here is another one for you to try:


Have a go at creating your own Venn diagram challenge.
Week 8 Maths Activities

