



Data and Analysis Home Information Sheet

Second Level (c)



Having discussed the variety of ways and range of media used to present data, I can interpret and draw conclusions from the information displayed, recognising that the presentation may be misleading. MNU 2-20a

I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way. MNU 2-20b

I can display data in a clear way using a suitable scale, by choosing appropriately from an extended range of tables, charts, diagrams and graphs, making effective use of technology. MTH 2-21a

Over the next few weeks we are going to be learning to:

- Interpret and draw conclusions from a range of data displays
- Compare and discuss different displays of the same data
- Understand that the method used to collect the information may affect the data gathered, the predictions made or conclusions drawn
- Recognise when presentation is misleading and discuss possible causes for this, e.g. inappropriate information gathered or data poorly displayed
- Realise that data may be presented in misleading ways in an attempt to influence choices
- Identify a range of ways to collect, organise and display data
- Appreciate that the method chosen to display the data needs to fit the purpose of the task
- Use a variety of methods to gather data, e.g. observations, surveys, questionnaires, experiments
- Work with others to display data accurately, choosing appropriately from their range of tables, charts, diagrams and graphs
- Draw conclusions from their findings and communicate them clearly, concisely and accurately
- Explain and justify why their choice of display is appropriate for illustrating their data effectively
- Choose how to display their data, explaining and justifying their choices
- Construct bar charts, pictograms, and tables accurately, including all key features, e.g. title, labelled axes, key
- Understand what the term scale means and how it applies to graphs
- Select and use an appropriate scale where necessary
- Use technology to display and organise data where appropriate

Here are some ideas of how you can help me at home!

Misleading? – Look through the newspaper or a news website together and find articles displaying data or statistics of any sort. Consider or discuss together how accurate this data is, and whether or not it has been presented in such a way as to mislead or influence the reader. If a good example is found, ask your child to bring it into school for discussion.

Switch It! – Look online or in the newspapers to find information that has been presented as a table, pie chart, bar graph or line graph. Challenge your child to take the information and change it to a different form (e.g. from a pie chart into a table). How does this affect the way we think about the information? Bring an example into class to discuss with the teacher.

Here are some websites that you may find useful to use with me!

Website 1 - <http://www.skysports.com> A rich source of tables to analyse and interpret.

Website 2 - <http://www.mathsisfun.com/data/data-graph.php> A simple tool for creating bar graphs, line graphs and pie charts.

Website 3 -

http://www.bbc.co.uk/bitesize/ks3/maths/handling_data/representing_data/revision/1/

An excellent website for rehearsing and extending knowledge and skills linked to displaying and interpreting data.

Website 4 - <http://www.topmarks.co.uk/maths-games/7-11-years/data-handling> A range of interactive data analysis activities.