



## Data and Analysis Home Information Sheet

### Second Level (b)



*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
- 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
- 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!

**Records** – Ask your child create a line graph to chart a personal time-based record for something they enjoy/are good at doing (tying a school tie, building a lego house,

running a lap of the garden etc.). He/she should time themselves completing their chosen activity numerous times and use the line graph to chart their improvement. The graph should then be brought to school to present to classmates.

**Healthy Eating** – Encourage your child to try to eat as healthily as possible over a two week period. He/she should decide how they are going to present and display this information (pictogram, poster, timetable etc.) and should bring it to school to discuss with the class.

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.topmarks.co.uk/maths-games/7-11-years/data-handling> A range of interactive data analysis activities.