

## **Lesson Plan Chapter 9**

In practice

The following lesson plan and evaluation describe a lesson taught to a group of 10 and 11 year old pupils who had been working on handling data with a particular focus on using data to explore real-life questions. They had also been using the 'Data Charts' program which you can find on the companion website. I wanted to work on an extended activity with the group so that they could see the data handling cycle as a continuous process. I also wanted the group to see that often a data handling investigation throws up new questions for us to consider.

**Topic:** Collecting, processing, presenting and interpreting data

**Age group:** upper primary

Objectives: To solve problems by collecting, processing, presenting and interpreting data. To draw conclusions and identify further questions to ask. To suggest, plan and develop lines of enquiry	
Note: I will use a whole morning for this activity rather than try and fit it into a single hour, or run over several lessons, as I feel this will lose continuity	
Key vocabulary	Survey, data, frequency table, hypothesis
Resources: Mini whiteboards	Starter activity: Write on the whiteboard 'The children in this class enjoy reading'. Ask the class to vote on this. Choose one of the group who voted for the statement – ask them to describe in detail what they mean when they say 'The children in this class enjoy reading'. Do the same with someone who disagreed. Ask the children to work in pairs for 5 minutes and come up with several statements about the class which may or may not be true. They should write these on mini whiteboards. Take feedback from the groups and agree which are the six most interesting questions to ask about the class. Phrase these as hypotheses and tell the class they are going either to prove or disprove these hypotheses. The children will choose which group to work in depending on the question they are most interested in
Main activity	Each group should spend 10 minutes deciding how they will test their hypothesis. For example, the group exploring 'We think this class enjoy reading' might decide that someone who reads 10 books a month and likes at least three different genres enjoys reading. The whole class should comment on each group's criteria Once each group has amended their criteria based on the feedback they have been given, they should develop a questionnaire – this time I will ask them to get feedback from me Finally the group collect the data. They complete frequency tables and use the program data charts to display their data Each group will prepare a short PowerPoint presentation to present their findings

Plenary: Each group present their findings – I will ask for feedback from all the other children using, the two stars and a wish system. (That is, each group assess each others presentation giving them two positive features – ‘stars’ – and one way of improving it – a ‘wish’.)