

Data Handling

Levelled Examples

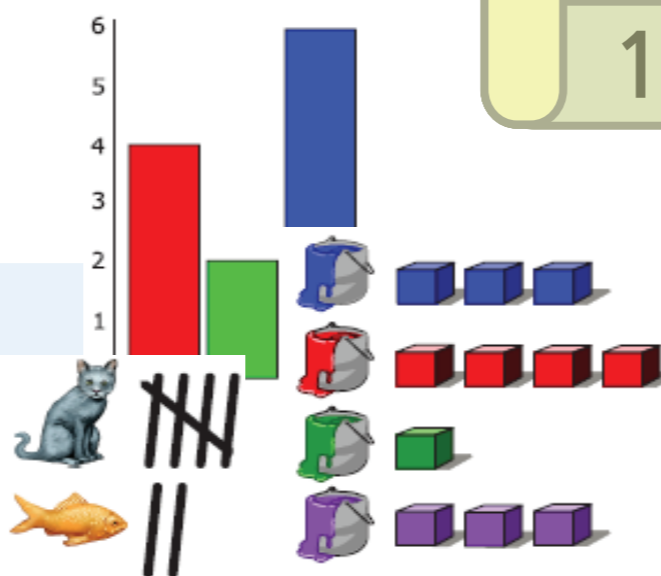


Context:

The children collected and recorded data in a variety of ways. They used 2Graph to find answers to questions.

What the children did:

Children used a tally chart to record their pets at home and use 2Graph to create a bar chart. They had questions on strips to answer, e.g. Which was the most popular pet?



What the children said:



Pupils should:

- Know how to ask questions in different ways to find things out.
- Know how to write questions to find information in different ways.
- Know how to change questions to find the information they need.

Next steps:

- Know how to adapt a questionnaire to ask new questions.
- Be confident in explaining a chart, or what questions they have found out.

Suggested resources:

- Graphing software e.g. 2Count, 2Graph, RM Starting Graph
- Database software e.g. 2Investigate Junior Viewpoint, Information Workshop, Information Magic, Textease Database.
- Branching database e.g. Textease Branch, Granada Branch, 2Question, Decision Tree

Example Cross Curricular Activities:

- Create record cards about the weather each day for a month.
- Use the data to create a graph / chart to find out the most common weather (Geography).
- Collect information on favourite snacks. Create graphs, then interpret and discuss the results (PSHE / Science).
- Collect information about minibeasts found in different habitats and use this to create a database to create graphs to answer questions. (Science).
- Identify the minibeasts they have found using a branching database (Science).
- Use a branching database to sort regular 2D shapes (Mathematics).

Attainment target for ICT

Level 1
Pupils explore information from various sources, showing they know that information exists in different forms. They use ICT to work with text, images and sound to help them share their ideas. They recognise that many everyday devices respond to signals and instructions. They make choices when using such devices to produce different outcomes. They talk about their use of ICT.

Level 2
Pupils use ICT to organise and classify information and to present their findings. They enter, save and retrieve work. They use ICT to help them generate, amend and record their work and share their ideas in different forms, including text, tables, images and sound. They plan and give instructions to make things happen and describe the effects. They use ICT to explore what happens in real and imaginary situations. They talk about their experiences of ICT both inside and outside school.

Level 3
Pupils use ICT to save information and to find and use appropriate stored information, following straightforward lines of enquiry. They use ICT to generate, develop, organise and present their work. They share and exchange their ideas with others. They use sequences of instructions to control devices and achieve specific outcomes. They make appropriate choices when using ICT based models or simulations to help them find things out and solve problems. They describe their use of ICT and its use outside school.