# Branching databases

**Description:**
Interpreting branching databases to find answers to questions and creating new charts to solve problems.

| Numeracy Strategy reference: | Task analysis: |
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| Year 4<br>Handling data<br>Organising and using data<br>pg114 | Pupils are required to:<br>• Analyse and interpret a branching database.<br>• Create a branching database.<br>• Use a branching database to solve problems. |

**Learning Objectives:**
Solve a problem by collecting, organizing, representing, extracting and interpreting data in tables, graphs and charts.

**Suggested activities:**

**Oral work and mental calculation:**
Introduce classification – sorting by yes/no.  Show succession of two different numbered cards.  Sort the two different number cards, e.g. for odd/not odd; for multiples/non multiples of 2, 3, 4, 5, 10; for even/not even, for doubles/not doubles of numbers up to 50; for numbers divisible/not divisible by 2, 3, 4, 5, 10.

**Teaching activity:**
Use the OHP or whiteboard to introduce bird classification.  Use the example database given on the demonstration sheet overleaf.  As a class, work through the questions, defining the characteristics and then identifying each bird.

In their group pupils go on to complete their own branching database, for example on animals.  Children may need class discussion with ideas for classification.

Introduce the class to the branching database activity for sorting numbers.  In groups or individually complete the database and use it to solve the accompanying problem.

**Plenary:**
Children to bring their own database sheets back to the class and explain their findings and solutions.

**Resources:**
Bird classification, blank and number database printable activity sheets.  Flash database creation program.

**Learning outcomes:**
Pupils should be able to:
• Analyse and interpret a branching database.
• Create a branching database and use them to solve problems.

*Extension activities:*
Introduce the class to the Flash activity – classifying children by their facial features.  Discuss ideas for classifying children.  Complete the activity in their group. Exchange printouts of the databases to compare and contrast results.