

Lesson 1:

Introducing Databases

Aim

- ② To sort objects using just YES/NO questions.

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Success Criteria

- ② Children understand how YES/NO questions are structured and answered.
- ② Children have used YES/NO questioning to play a simple game with a friend.

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Databases

2 What is a database?

A **database** is a collection of data organised in such a way that it can be searched, and information found easily.

Database usually refers to data stored on computers.

Example:

The school attendance database has all the data from the registers.

The school staff can easily do a search of the database using the computer to find out who has 100% attendance and who has missed lots of school.



Example:

People use databases every time they search the Internet to find specific information; for example, searching for a holiday destination that is the right temperature and has the things they like, such as a swimming pool and beach nearby.

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Branching Databases

2 What is a branching database?

A **branching database** is used to classify groups of objects. It is used to help identify the objects by answering questions with either 'yes' or 'no'. Branching databases can also be called binary trees. They are called branching because each time a question is asked there can be two answers, making two branches. When you put all the questions and answers together in the database, it forms the shape of a tree (upside down).

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Guess the Fruit



I am having fruit for my lunch. Can you ask YES / NO questions to find out which fruit I am having?

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Asking Better Questions

② What questions can you ask to split the fruit into 2 equal groups?



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Activity 1: Guess Who?



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Review Success Criteria

- ② I understand how YES/NO questions are structured and answered.
- ② I have used YES/NO questioning to play a simple game with a friend.
- ② I can explain why they choose a particular question to split their database.
- ② Extension: I can begin to use 'or more' and 'or less' in their questioning.

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