Lesson 5: Using a branching database

Year 3 – Data and information – Branching database

National Centre for Computing Education

Lesson 5: Using a branching database

To identify objects using a branching database

- I can select a theme and choose a variety of objects

- I can create questions and apply them to a tree structure

- I can use my branching database to answer questions

Think, pair, share: What does a good branching database need?

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Setup and choosing

- Choose one of the j2data library themes

- Select eight or ten objects

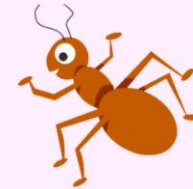**Food and drink**

Animals

Dinosaurs

Clothes

Minibeasts

Transport

Picking objects

If the objects are too similar or too different, it can be difficult to separate them evenly!
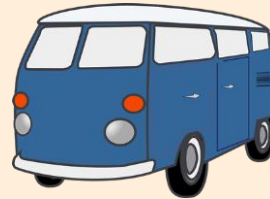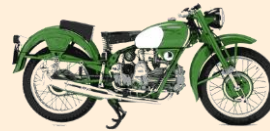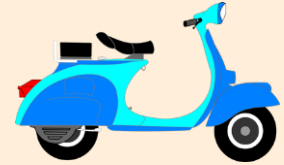
Setup and choosing

Building a branching database

Which question would be the most useful if you wanted to separate this group of objects?

1. Is it green?

1. **Does it have more than two wheels?**

1. Does it have an engine?

Building a branching database

Think, pair, share: Why is it important to separate the groups as evenly as possible?

It makes it easier to find an object because you have to ask fewer questions!
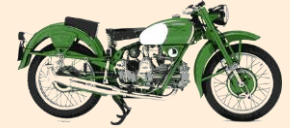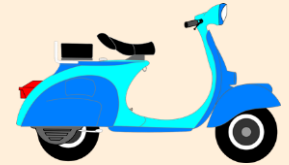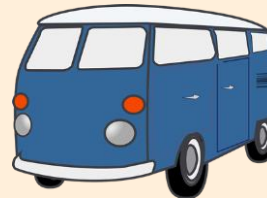
These may help you!

Question starters:

- Is it _____

- Does it _____

- Does it have _____

- Does it have more than _____

Attributes:

- Colour

- Number of _____

- Lives in /on_____

- Travels on _____

Answering questions

play
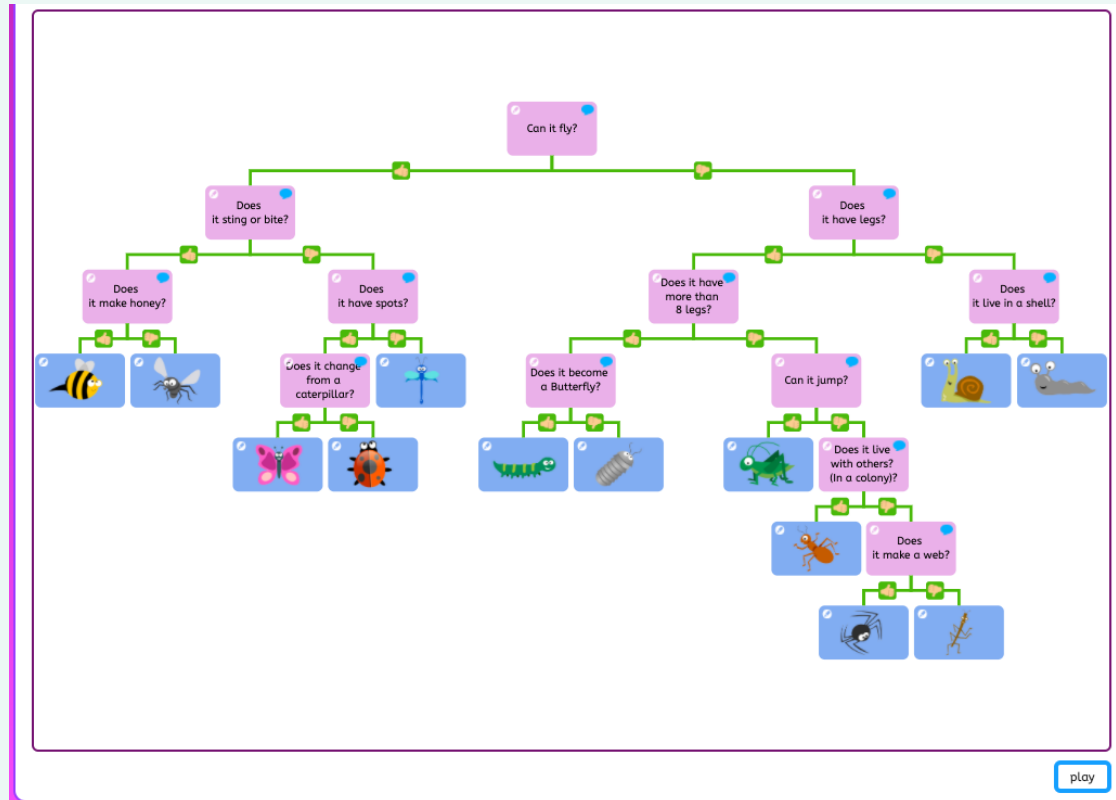
Answering questions

Using my branching database

Introduction

- Choose an object from your branching database
- Write the name of the object in the space provided
- List all of the answers to the questions in your branching database

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Example:

Object: Snail

Attributes: Can not fly

                           Does not have legs

                           Does have a shell

Object:

_____

Attributes:

_____

_____

What's the problem?

Does it have four wheels?

Yes — No

Does it have fewer than four doors?   **Does it have an engine?**

Yes — No   Yes — No

Is it a farm vehicle?   **Is it green?**

Yes — No   Yes — No

How confident are you? (1–3)

- I can select a theme and choose a variety of objects

- I can create questions and apply them to a tree structure

- I can use my branching database to answer questions

3 - Very confident

2 - Unsure

1 - Not confident

Next lesson

In this lesson, you...

Created a branching database, using your knowledge of the structure and using yes or no questions

Used your branching database to answer questions

Next lesson, you will...

Be able to explain what a pictogram and a branching database can tell you

Compare the two different ways of presenting information