

# Computing- Year 4- Spring Term- Databases

Prior Learning:

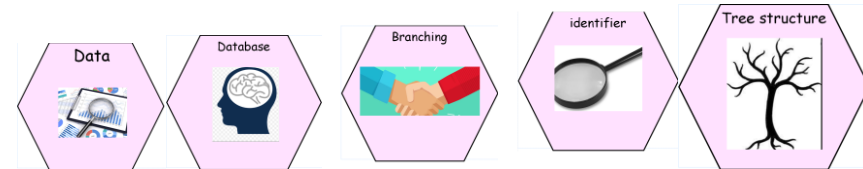
**Theme:** Branching Databases

**Concept:** Data and Information

**Hardware:** Laptop

**Software:** [www.j2e.com/help/videos/datags3](http://www.j2e.com/help/videos/datags3), <https://www.j2e.com/j2data/>

## Words we will know!



### 1. Technology around us

We will start to explore questions with yes/no answers, and how these can be used to identify and compare objects. We will create our own yes/no questions, before using these to split a collection of objects into groups.

Question								Total 'Yes'	Total 'No'
Example: Does it have handlebars?	✓	X	✓	✓	X	X	X	3	4

### 2. Making groups

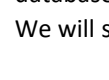
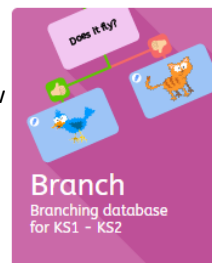
We will develop our understanding of using questions with yes/no answers to group objects more than once. We will learn how to arrange objects into a tree structure and will continue to think about which attributes the questions are related to.



We know that you can group objects with yes or no questions

### 3. Creating a branching database

We will continue to develop our understanding of ordering objects/images in a branching database structure. We will learn how to use an online database tool to arrange objects into a branching database, and will create our own questions with yes/no answers. We will show that our branching database works through testing.



### 4. Structuring a branching database

We will continue to develop our understanding of how to create a well-structured database. We will use attributes to create questions with yes/no answers, and will apply these to given objects. We will compare the efficiency of different branching databases, and will be able to explain why questions need to be in a specific order.

### 5. Planning a branching database

We will independently plan a branching database by creating a physical example of one that will identify different types of dinosaur. We will continue to think about the attributes of objects to write questions with yes/no answers, which will enable us to separate a group of objects effectively. We will then arrange the questions and objects into a tree structure, before testing the structure.



We know how to separate groups according to their attributes

### 6. Making a dinosaur identifier

We will independently create a branching database to identify different types of dinosaur, based on the paper-based version that we created in Lesson 5. We will then work with a partner to test that our database works, before considering real-world applications for branching databases.



We know where branching databases can be used.