Year 3 - Branching Databases – Knowledge Organiser

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| Prior Learning: collect and representing data using charts and pictograms, sorting data into groups |

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| Facts | Vocabulary |
| 1. **What is a branching database?**  * A branching database (sometimes called a binary tree) is a way of classifying a group of objects. * If it has been designed properly, someone else could use the tree to identify one of the objects. It could be used, for example, to classify mini-beasts, musical instruments, white powders or fruit. | **Branching database** – a way of classifying a group of objects.  **Classify** – arrange in categories according to shared characteristics.  **Attribute**s - a quality or feature regarded as a characteristic of someone or something |
| 1. **Using branching databases**  * Branching databases use a series of closed questions to determine the attributes of a particular item. * By working through these questions, the user will be able to sort a particular set of items. * When using a branching diagram, the first question will split the group of objects evenly. * The next question answered will be determined by the answer to the previous question, the user will then follow a branch to the end where they will find the name of the item. | 1. **Creating a digital branching database**  * Digital databases allowing for easier editing and some can be programmed to work through the branches. * They are created following the same process as a physical database, however the computer will sort and create branches based on the user’s questions. |
| 1. **Creating a physical branching database**  * When creating a branching database, the first question should evenly split the objects based on common attributes. * Purposeful closed questions should be used to split the group further until each branch ends in one specific object; images can be used to represent the object. * Once a branching database is complete, it should be thoroughly tested using each item; this will ensure that it correctly sorts items within a category. | Branching Database | St. Mary &amp; St. Thomas Aquinas |