Over Hall Community School	Year: 2	Computing – Questioning

What should I already know?

- Use of 2Dos, saving, opening and editing work, sharing work, copying and pasting, mouse, keyboard and device skills.
- Sorting data according to criteria
- Collecting and presenting data in a picture format
- Use of 2Calculate to collect data and produce a graph

What will I know by the end of the unit?

How can I use and create Pictograms?

- You will understand that the information on pictograms cannot be used to answer more complicated questions.

How do I ask Yes / No Questions?

- You will have used a range of yes/no questions to separate different items

How do I use Binary Trees?

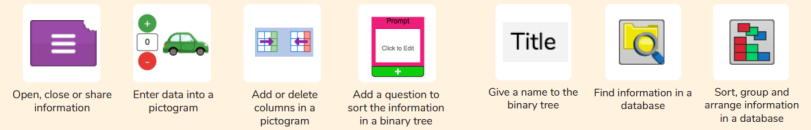
- You will understand what is meant by a binary tree. • You will design a binary tree to sort pictures of children.

How do I use 2Question – a Computer Based Binary Tree Program?

- You will understand that questions are limited to 'yes' and 'no' in a binary tree. • You will understand that the user cannot use 2Question to find out answers to more complicated questions. • You will have matched 2Simple item pictures to names using a binary tree.

How will I use 2Investigate: a Non Binary Database.?

- You will understand what is meant by a database. You will have used a database to answer simple and more complex search questions



Key Vocabulary

- **Binary Tree** A simple way of sorting information into two categories.
- **Data** A collection of information, used to help answer questions.
- **Database** A computerised system that makes it easy to search, select and store information.
- **Field** A single piece of data in a database which makes up a record.
- **Pictogram** A diagram that uses pictures to represent data.
- **Question** A sentence written or spoken to find information.
- **Record** An item in a database with a variety of information about a specific entry.
- **Search** Looking for specific information. On a database, you can use the 'Find' tool.
- **Sort** Put things together by features they have in common.

Key Questions

- **How does a Pictogram show information?**

On a pictogram, data is represented by pictures. Pictograms are set out in the same way as bar charts, but instead of bars they use columns of pictures to show the numbers involved

- **How is information organised in a binary tree?**

On a binary tree information is organised through a series of questions that can only be answered 'yes' or 'no'. Eventually only one item is left in the category which forms the end of a branch of the binary tree.

- **How can a database help organise information?**

A database is a way of storing information in such a way that it can easily be searched. Databases are designed to hold lots of information that would be difficult to search without using a computer.

Key Resources

- 2 Count, 2 Investigate, 2Question