** PURPLE MASH COMPUTING SCHEME OF WORK - KNOWLEDGE ORGANISER**

**Unit: 5.4 – Databases**

**Key Learning**

**Key Vocabulary**

**Avatar** – An icon or figure representing a person in a video game, Internet forum, etc.

**Binary tree** **(branching database)** – A way to sort information by dividing the information into groups based upon questions with yes or no answers.

**Charts** – Representing information in a pictorial form.

**Collaborative** – Produced by, or involving, two or more parties working together.

**Data** –Facts and statistics collected together for information.

**Database** – A set of data that can be held in a computer in a format that can be searched and sorted for information.

**Find** - Search for information in a database.

**Record** – A collection of data about one item entered into a database.

**Sort, Group and Arrange** – Different ways to sort information in a database to it is easy to read, understand and interpret.

**Statistics and reports** – To produce information about data in a database.

**Table** –Sorting information into rows and columns.

To learn how to search for information in a database.

To contribute to a class database.

To create a database around a chosen topic.

**Key Resources**



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**Unit: 5.4 – Databases**

**Key Questions**

**Key Images**

What is a database?

|  |  |
| --- | --- |
| Avatar creator |  |
| Open, save or share a file.  |  |
| Design a new database |  |
| Add a record to the database |  |
| Find information in the database |  |
| Sort, group and arrange information. |  |
| Statistics and reports |  |
| Represent the information as a chart |  |

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.

In what ways can I sort information in a database?

A database can hold lots of information so it is essential that information can be effectively investigated. In 2Investigate, data can be searched and sorted in a variety of ways. It can also be presented pictorially.

Why is the collaborative feature important?

Making a database collaborative allows lots of people to enter information into the database at the same time. This is a lot quicker than one person entering the data by themselves.