



Computing Topic: Database and 3D modelling

Year: 5 **Term:** Summer 1

Key Knowledge/Content:

Database

- To learn how to search for information in a database.
- To contribute to a class database.
- To create a database around a chosen topic.

3D Modelling

- To be introduced to 2Design and Make and the skills of computer aided design.
- To explore the effect of moving points when designing.
- To design a 3D Model to fit certain criteria.
- To refine and print a model.

Links to:

Prior learning:

- Game Creator
- Databases

Future learning:

- Modelling

Key vocabulary with definition:

Prior Vocabulary

- Data - A collection of information, especially facts or numbers, obtained by observation, questions or measurement to be analysed and used to help decision-making.
- Database - A set of data that can be held in a computer in a format that can be searched and sorted for information.
- Sort - Organising data by a rule such as alphabetical or numerical.
- Search - A way of finding information.

New Vocabulary

- Collaborative - Produced by, or involving, two or more parties working together.
- Field - A heading in a database record against which information is entered.
- Group - Putting similar pieces of information together in a database so it is easy to read, understand and interpret.
- Database Report - A way of producing a written paragraph that incorporates the data from the fields and records of the database.

By the end of this unit

All children can: **design** and **enter** information accurately into their own database and **create** questions about their database for their classmates to answer.

Most children can: **create** a database within 2Investigate which contains contextualised information relating to a topic.

Some children can: demonstrating greater depth will **lead** a small group in the design and creation of a collaborative database.

Background understanding for teachers and parents:

Children are developing and creating class databases which allows them to search and find information.

Curriculum Driver (one):

Communication

Evidence outcome:

To know how to present and collect data.