Linked learning theme: Year 3 – Spring 2

Computing – Data and information - Branching databases

Prior Learning

- This unit progresses learners' knowledge and understanding of the categories of data handling, with a particular focus on implementation. It builds on their knowledge of data and information from key stage 1. They will continue to develop their understanding of attributes and begin to construct and interrogate branching databases as a means of displaying and retrieving information.

Core knowledge

Learners will develop their understanding of what a branching database is and how to create one. They will use yes/no questions to gain an understanding of what attributes are and how to use them to sort groups of objects. Learners will create physical and on-screen branching databases. To conclude the unit, they will create an identification tool using a branching database, which they will test by using it. They will also consider real-world applications for branching databases.

Key skills

- Identify and classify objects using a yes/no criteria.
- Use attributes of objects to affectively group them.
- Test branching databases to assess the effectiveness of them.
- Assess the efficiency of databases.
- Use non-digital methods to predict and test how digital databases will behave.

Vocabulary

Attribute
Branching database
Efficiency
Grouping
Test
Tree structure

Learning Outcomes

- To create questions with yes/no answers.
- To identify the attributes needed to collect data about an object.
- To create a branching database.
- To explain why it is helpful for a database to be well structured.
- To plan the structure of a branching database.
- To independently create an identification tool