Computing			
Topic	**Branching Databases**	**Year**	**3**

National Curriculum Objectives

- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly

Prior Learning	Future Learning
Pictograms Collecting data in tally charts and using and present data on a computer	Data logging: Recognising how and why data is collected over time, before using data loggers to carry out an investigation.

What pupils need to know or do to be secure

To independently create an identification tool

- I can create a branching database that reflects my plan
- I can work with a partner to test my identification tool
- I can suggest real-world uses for branching databases

Key Knowledge	Key Skills	Possible sources of evidence
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.	To create questions with yes/no answers ● I can investigate questions with yes/no answers ● I can make up a yes/no question about a collection of objects ● I can create two groups of objects separated by one attribute To identify the attributes needed to collect data about an object ● I can select an attribute to separate objects into groups ● I can create a group of objects within an existing group ● I can arrange objects into a tree structure To create a branching database	Photos iPad databases written notes

	● I can select objects to arrange in a branching database ● I can group objects using my own yes/no questions ● I can test my branching database to see if it works To explain why it is helpful for a database to be well structured ● I can create yes/no questions using given attributes ● I can compare two branching database structures ● I can explain that questions need to be ordered carefully to split objects into similarly sized groups To plan the structure of a branching database ● I can independently create questions to use in a branching database ● I can create questions that will enable objects to be uniquely identified ● I can create a physical version of a branching database To independently create an identification tool ● I can create a branching database that reflects my plan ● I can work with a partner to test my identification tool ● I can suggest real-world uses for branching databases	
Key Vocabulary	attribute, value, questions, table, objects, branching, database, objects, equal, even, separate, structure, compare, order, organise, selecting, information, decision tree.	