Subject: COMPUTING	Year group: Year 3	Topic: Branching Databases	Initiation & activation activities: Produce a branching				
Prior knowledge required: This unit progresses learner: particular focus on impleme They will continue to develo branching databases as a mo	Vocabulary: attribute, value, questions, table, objects, branching, database, objects, equal, even, separate, structure, compare, order, organise, selecting, information, decision tree.	database for a cross curricular lesson.					
 Program of study: 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 							
 Implementation: Knowledge skills and understanding. Can they input data into a prepared database? Can they search a database to answer simple questions? Can they use a branching database? 							
 GREATER DEPTH Can they contribute to a class blog? Can they use a repeat command to create a pattern? Can they search a keyword using a child friendly search engine? 							
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.							

		Impact –lesson sequence:	Evaluation/assessments
To crea	ate questions with	Lesson 1 Yes or no questions	
yes/no	answers	Learners will start to explore questions with yes/no answers, and how these can be used	
•	I can investigate	to identify and compare objects. They will create their own yes/no questions, before using	
	questions with yes/no	these to split a collection of objects into groups.	
	answers		
•	I can make up a		
	yes/no question about		
	a collection of objects		
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To ider	ntify the attributes	Lesson 2 Making groups	
needeo	d to collect data about		
an obje	ect	Learners will develop their understanding of using questions with yes/no answers to group	
•	I can select an	objects more than once. They will learn how to arrange objects into a tree structure and	
	attribute to separate	will continue to think about which attributes the questions are related to.	
	objects into groups		
•	I can create a group of		
	objects within an		
	existing group		
•	I can arrange objects		
	into a tree structure		
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To crea	ate a branching	Lesson 3 Creating a branching database	
databa	se	Learners will continue to develop their understanding of ordering objects/images in a	
•	I can select objects to	branching database structure. They will learn how to use an online database tool to	
	arrange in a branching	arrange objects into a branching database, and will create their own questions with yes/no	
	database	answers. Learners will show that their branching database works through testing.	
•	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 	Lesson 4 Structuring a branching database Learners will continue to develop their understanding of how to create a well-structured database. They will use attributes to create questions with yes/no answers, and will apply these to given objects. Learners will compare the efficiency of different branching databases, and will be able to explain why questions need to be in a specific order.	
 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 	Lesson 5 Planning a branching database Learners will independently plan a branching database by creating a physical representation of one that will identify different types of dinosaur. They will continue to think about the attributes of objects to write questions with yes/no answers, which will enable them to separate a group of objects effectively. Learners will then arrange the questions and objects into a tree structure, before testing the structure.	
To independently create an identification tool I can create a branching database that reflects my plan	Lesson 6 Making a dinosaur identifier Learners will independently create a branching database to identify different types of dinosaur, based on the paper-based version that they created in Lesson 5. They will then	

٠	I can work with a	work with a partner to test that their database works, before considering real-world	
•	partner to test my identification tool I can suggest real- world uses for branching databases	applications for branching databases.	