Crosby Primary School	Computing Medium Term Plan Year - Autumn Term	Cycle A Unit - (6 Weeks) Y 3 4 Branching Databases			
National Curriculum	Prior Knowledge	Resources			
(Core Learning)	Builds on knowledge of key stage 1.	Visit: Teach it website			
	Grouping Data unit 1.4.	https://teachcomputing.org/curriculum/key-stage-2/data-and-			
NC LINKS		information-branching-databases			
1.Select, use and combine a variety	7 GOOGGITTOTIC T OTTHALIVE ACCOCCITION				
software (including internet services)	. Opportunities are provided in each of the	For Unit Plan, Lesson Plans unit plans and Learning Graphs			
a range of digital devices to design a create a range of programs, systems					
content that accomplish given goals,					
including collecting, analysing, evalu	Summative assessment, multiple choice				
and presenting data and information.					
Vocabulary Generic vocabulary: objects, compare, equal, information, organise, order questions, se					
2. Use technology safely, respectfully	table.				
and responsibly.	New Topic vocabulary:	New Topic vocabulary:			
Curriculum Links		Attribute: Is a way of describing things, such as:colour, diet, pattern, size and habitat etc			
Various contexts are used to create	Branching database: is a way of classifying groups of objects. It is used to help identify the objects by.				
branching databases throughout the	answering questions with either 'yes' or 'no'.				
You can change these contexts to fit	Data : data means information. You can collect data by showing it in tables, charts or graphs.				
with other areas of the curriculum.	Database: A database is composed of 'records', which are sets of data on a particular object.				
with other drode of the outhloadin.	Decision Tree: is a specific type of flowchart (or flow chart) used to visualise the decision-making process by				
	mapping out different courses of action.				
		Selecting: carefully choose as being the best or most suitable.			
	Structure : organise and arrange the parts.				
	Value: the numerical worth or amount. Lesson Sequence				
Learning Objective	Core Knowledge	Additional Information			
L1		Additional information			
LO To create questions with yes/no answers	Procedural Knowledge (Skills):	L1 See lesson plan			
Success criteria:	Create questions with yes/no answers.	https://teachcomputing.org/curriculum/key-stage-2/data-and-information-			
Investigate questions with yes/no	Choose questions that will divide objects	branching-databases/yes-or-no-questions			

Use Key Q

ended?

Which questions are yes/no, and which questions are open-

into evenly sized subgroups.

database.

Repeatedly create subgroups of objects.

Identify an object using a branching

answers.

Make up a yes/no question about a

collection of objects
I can create two groups of objects
separated by one attribute

L2

LO To identify the attributes needed to collect data about an object Success criteria:

Select an attribute to separate objects into groups.

Create a group of objects within an existing group.

Arrange objects into a tree structure.

L3

LO To create a branching database Success criteria:

Select objects to arrange in a branching database.

Group objects using my own yes/no questions.

Test my branching database to see if it works.

L4 LO To explain why it is helpful for a database to be well structure Success criteria:

Create yes/no questions using given attributes.

Compare two branching database structures.

Explain that questions need to be ordered carefully to split objects into similarly sized groups.

L5 LO To plan the structure of a branching database.

Success criteria:

Independently create questions to use in a branching database.

Create questions that will enable objects to be uniquely identified.

Create a physical version of a branching database.

L6 LO To independently create an identification tool.

Success criteria:

Create a branching database that reflects my plan.

Work with a partner to test my identification tool.

Suggest real-world uses for branching databases

Retrieve information from different levels of the branching.

Propositional Knowledge (Concepts):

Investigate questions with yes/no answers.

Identify attributes that you can ask yes/no questions about.

Select an attribute to separate objects into two similarly sized groups.

Recognise that a data set can be structured using yes/no questions.

Relate two levels of a branching database using AND.

Suggest real-world applications for branching databases.

To explain that a: branching database is an identification tool; well - structured branching database will enable you to identify objects using fewer questions.

L2 See lesson plan and presentation

https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases/making-groups

Use Key Q What attribute could separate the 'Yes' group again? What question could you ask to separate these objects into groups?

L3 See lesson plan and presentation

https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases/creating-a-branching-database

Use Key Q What do you think you need before you can begin building a branching database? Did the branching database work? Do the questions focus on the correct attributes? Have the objects been organised into the correct groups?What could make the database better?

L4 See lesson plan and presentation

https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases/structuring-a-branching-database

Use Key Q

What is an attribute?

What do you notice about this branching database?

L5 See Lesson plan and presentation

https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases/using-a-branching-database

Use Key Q What attributes could you use to compare? What questions could you ask to identify these?

L6 See Lesson plan and presentation

https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases/two-ways-of-presenting-information

Use Key Q

Does it work? Do you need to make any changes? What else could you use a branching database for?