

Question: How do you create a branching database? Branching databases			
National Curriculum Link: -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			
International Baccalaureate Learner Profile Link: Communicators. How do we express and present ourselves to others? How can we communicate with others? We can be clear in both written and oral form? Reflective Remaining open to continuous learning. Striving to be accurate and precise. Strive to not be complacent. Balanced. To understand the impact on my mind, body and emotions. Understanding the impact on others.			
Prior Skills: Year 2 To show I can enter data onto a computer. To recognise that people, animals and objects can be described by attributes. To use a computer to view data in different formats. To use pictograms to answer single-attribute questions. To use a computer to answer comparison questions (graphs, tables).	New Skills: Year 3 To investigate questions with yes/no answers. To identify the object attributes needed to collect relevant data. To select an attribute to separate objects into two similarly sized groups. To explain that data can be used to answer questions. To decide what data needs to be collected to answer a specific question. To retrieve information from different levels of the branching database. To create questions with yes/no answers. To relate two levels of a branching database using AND.	Future Skills: Year 4 To suggest questions that can be answered using a given data set. To identify the data that we need to answer questions . To identify that sensors are input devices. o use a digital device to collect data automatically. To recognise that a sensor can be used as an input device for data collection. To choose how often to automatically collect data samples. To explain that a data logger captures 'data	

	To compare the information shown in a pictogram with a branching database.	points' from sensors over time. To use a larger data set to find information. To use a computer program to sort data by one attribute. To present data in a table. To export information in different formats. To present data in a graph.
--	--	--

Knowledge, Skills and Understanding

To create a presentation or basic digital book that is well designed, contains formatted text, images and presents information.
To read a simple database to find information.
To learn about organising the data they collect.
To understand they can create digital content using more than one app or piece of software. To independently save and open files on the device they use.

Challenge

Resources: Hardware: iPads, Computers Teach computing page.	Websites or Apps: https://www.atschool.co.uk/keystage2-ks2/ict.asp?section=6793 (game) http://resources.hwb.wales.gov.uk/VTC/ngfl/maths/cynnal/data/index_e.html https://www.youtube.com/watch?v=kttL04lluWU
	Extended Writing Opportunities: Choose a company to follow the steps with, answering yes/no questions, grouping etc.
Vocabulary: Attribute, groups, tree structure, database, computer, branching, displaying and retrieving information.	Numeracy skills: Understand quantities within databases.
Suggested Quality Texts: See selection in library.	WOW Experience: Someone from a small company show or share their own use of database used for a known company or person.

Cross Curricular Links:

Science- database about plants, types or rocks etc.