Year 5 Spring 2

Question: What is a flat-file database?
Flat file databases.

National Curriculum Link:

-use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
-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

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?
Principled.
To take my time and think before acting.
To remain calm, thoughtful and deliberate in my actions.
Caring
What does it mean to be caring?
What people, actions and ideas do I care most about?
How do I show that I care through my actions and words?

Year 5 Spring 2

Prior Skills: Year 4	New Skills: Year 5	Future Skills: Year 6
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 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	To navigate a flat-file database. To design a structure for a flat-file database. To choose different ways to view data. To ask questions that need more than one attribute to answer. To choose which attribute to sort data by to answer a given question. To choose which attribute and value to search by to answer a given question (operands). To choose multiple criteria to search data to answer a given question (AND and OR). To select an appropriate graph to visually compare data. To choose suitable ways to present information to other people.	To identify questions that can be answered using data. To outline what makes good questions to answer with data. To propose simple, relevant questions that can be answered using data. To explain that objects/artifacts can be described using data. To explain what an item of data is. To recognise that data can be calculated using different operations. To recognise that changing inputs also changes outputs. To apply formulas to data, including duplication.

Knowledge, Skills and Understanding

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.

Resources:	Websites or Apps: Apps: Book creator.
Hardware: iPads, Computers.	https://www.bbc.co.uk/bitesize/guides/zfd2fg8/revision/4 https://code-it.co.uk/databases-2/

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Teach computing resources.	https://www.teach-ict.com/glossary/P/paper_database.htm https://www.tes.com/teaching-resource/computer-database-over-a-paper-based-database-6380087
	Extended Writing Opportunities: Write a report on the database created for flight attendant.
Vocabulary: Database, paper-based. Data, sort, group, flat-file, records, field, charts.	**Numeracy skills:** Tally charts. Databases.
Suggested Quality Texts: See selection in library.	**WOW Experience:**
Cross Curricular Links: History: create database in role of a famous person.	