



Data and information - Flat-file databases

Key Question/What will I learn by the end?

Lesson sequence

- Creating a paper based database.
- Computer datebases
- Using a database
- Using search tools
- Comparing data visually
- Databases in real life



Visual Representations







Cross-curricular Links

Homework - to use Google Classroom to access the home learning.

Maths - data handling

Concept Links/Prior Knowledge

- Visual presenting techniques
- Formula

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YRI- Know that the order of instructions in an algorithm is important.

- Know how to debug an error in a simple algorithm or program.
- YR4- Know how to use algorithms for coding and programming
 - Know how to develop databases and sort the data according to different criteria.

Sticky Learning

New Knowledge

Know that there are other ways to search for information (ex: search engines) and retrieve information from these

Know what a spreadsheet is and how to create one using Excel

Know that spreadsheets require formulas that ends in a result which can be transferred to a graph

Know that complex algorithms can have multiple errors that need debugging. To know how to read a complex program. To know how a particular algorithm works. To know how to detect (using logical reasoning) a bug and debug that problem in a program.

New Skills

Use key words and phrases when searching information on a search engine

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

Begin to input data and formulas into spreadsheet

Detect and correct errors in complex algorithms

Formula, data, Debugging,
Sequencing, Storing, saving and
retrieving work, Giving precise
instructions, Algorithms, Logic, Debug
Programmes

Vocabulary

Stored (data) - Data kept digitally so that it can be accessed by a computer.

Variable- A named piece of data (often a number or text) stored in a computer's memory, which can be accessed and changed by a computer program.

Attribute A word or phrase that can be used to describe an object such as its size, colour or price.

Operands-the part of computer instruction that specifies data that is to be manipulated.

Computer Safety

- To know how to recognise malicious behaviour
- Know how to respond to malicious behaviour on the internet by reporting to an adult, website, IS provider, police, childline, CEOP
- To know which websites are safe to do searches on
- To know how to use the internet safely and securely by keeping their personal details confidential and reporting any suspicious online activity
- ullet To know that anything I share online will stay there to be seen and used by others
- To report unsafe sites or content to an adult.