

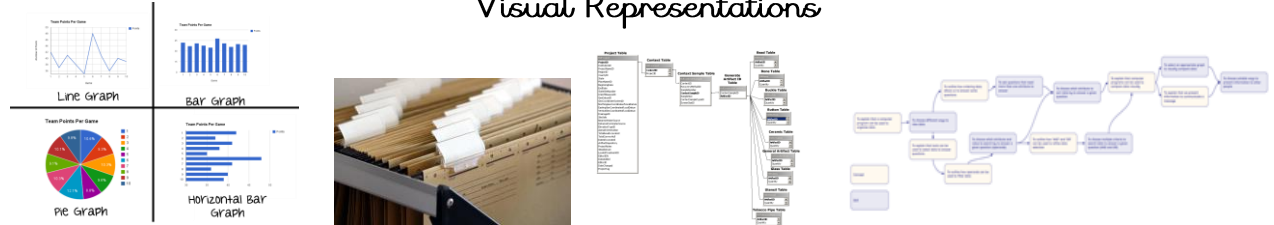
Data and information - Flat-file databases

Key Question/What will I learn by the end?

Lesson sequence

- Creating a paper based database.
- Computer databases
- 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
- YR1- 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 a spreadsheet
 Detect and correct errors in complex algorithms

Vocabulary

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

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
- 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.