



Year 5 Knowledge Organiser

Computing – Data

What I should already know.

- Generate and compare different charts and graphs (using graphing software) and understand that different graphs are used for different purposes.
- Create and use a branching database to organise and sort data to answer questions.
- Determine the data needed to answer a specific question; organise, present, analyse and interpret the data in tables, diagrams, tally charts, pictograms and bar charts, using ICT where appropriate.
- Begin to develop skills to identify clearly what data needs to be collected and design a questionnaire or use an input device (e.g. data logger) to aid its collection.

What will I know by the end of the unit?

- Design questions using key words, to search a large pre-prepared database.
- Use complex searches (and/or, is greater/less than) to search data when looking for relationships and patterns in data.
- Modify a search pattern in order to find specific information.
- Check for accuracy by checking data, using different views, search tools, and graphing. Identify and correct inaccuracies.
- Solve complex enquiries involving selecting, processing, and presenting data; drawing conclusions from the process (e.g. is there a relationship between mini-beast habitats and diets?).
- Collect appropriate data, enter it into a database and use the database to answer simple questions and provide information.
- Raise questions of the data and translate them into search criteria.

Key Vocabulary

Database
Data type
Field
Form
Define
Record
Boolean

Key Knowledge

- Recognise the need for accuracy when entering and interrogating data and how this will affect the quality of the information gained.
- Recognise the consequences of data not being accurate, relate to the wider world (e.g. Police, doctors', banks', schools' databases).
- Discuss how ICT enables the user to search and filter large amounts of different types of data to find information. Describe the advantages of using these tools and the need for accuracy.
- Understand the need for data protection and some of the rights of individuals over stored data and how it affects use and storage of data in the real world.
- Understand the need to structure information properly in a database.
- **Know, understand and use the vocabulary: file, record, field, data, information.**
- **Talk about the advantages of using ICT to change, sort, interrogate and classify data quickly.**
- **Understand the difference between data and information.**

Online Safety

Protect and Secure



Is it real?



Be E-safe and enjoy!



Software

