

Data Handling Detectives with Kit the Fox

Learning objective: To understand, interpret, and present data using digital tools and physical charts as per the Year 4 Computing curriculum.

Read the front of each flashcard to test your knowledge of data handling. Flip the card to check your answer and see how Kit the Fox uses these concepts to solve computing puzzles.

What is a database?

A structured collection of information stored on a computer that makes it easy to search and sort data.

In a database, what is a 'record'?

A complete set of information about one specific item or person, like all the details about one book in a library.

What is a 'field' in a database?

A single piece of information within a record, such as a 'Surname' or 'Date of Birth'.

What does it mean to 'query' a database?

To ask the database a specific question to find certain pieces of information.

How is a 'tally chart' used in data handling?

It is used to record data quickly by using marks to count items as they are collected.

What is the purpose of a 'bar chart'?

To present data visually using rectangular bars so that we can easily compare different groups.

What does it mean to 'sort' data?

To arrange items into a specific order, such as alphabetical, numerical, or by date.

What does it mean to 'filter' data?

To hide some information so that you only see the data that meets your specific criteria.

Kit wants to find all students in Year 4 who like apples. Should Kit 'sort' or 'filter' the data?

Kit should 'filter' the data to hide the students who do not like apples.

Why is it important to check that data is accurate before creating a chart?

If the original data is incorrect, the final chart or graph will show the wrong information.

True or False: A computer database can hold much more information than a paper file.

True. Computers are designed to store and organise large amounts of data efficiently.