



Year 6

Data Detectives

Key Learning

- To find information in databases by filtering and sorting.
- To create graphs from data within a database.
- To be able to find information in linked table databases.
- To be able to find requested information using databases.

Key Resources



Key Vocabulary

Bar Chart

A type of graph that uses categorical data, which means the data is grouped into categories e.g. colours, types of pet.

Database

A set of data that can be held in a computer in a format that can be searched and sorted for information.

Linked Tables

A database can contain more than one table which can be linked together so a query can include information from the linked tables.

Calculate

In databases, calculations on data can be performed e.g. calculate the number of records.

Filter

Filtering what information is shown according to any filter rules applied.

Query

A way for a user to find specific information in a database by using tools such as filtering and grouping.

Condition

A condition is a rule you give to a database to help it find the right information. A condition might contain an operator.

Field

A heading in a database record against which data is entered.

Record

A collection of related data or information that is stored together as a single unit.

Data

A collection of information, especially facts or numbers, to be analysed and used to help decision-making.

Group

Putting similar pieces of information together in a database so it is easy to read, understand and interpret.

Sort

Organising data by a rule such as alphabetical or numerical.

Line Graph

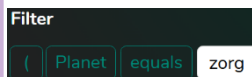
A type of graph used to display information which can change over time. For example, temperature at different times of the day.



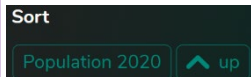
Year 6

Data Detectives

Key Images



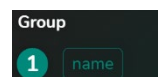
Filter Tool



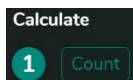
Sort Tool



Graph Tool



Group Tool



Calculate Tool

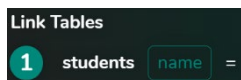
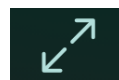


Table Link Tool



Expand Tool



Combining Operators

Key Questions

What is a database?

A collection of data organised in such a way that it can be searched and information found easily. Database usually refers to data stored on computers.

How can databases be queried to find information?

Databases contain tools that help a user of it query a database to find information. The filter, sort, calculate, group and chart tool can all be used in isolation or in any combination to query a database. Each tool has a specific function.

Why might tables be linked together?

Databases might contain more than one table because if they were all in one table, the data would be very difficult to manage. A user can combine information contained in both tables temporarily when creating a query that needs information from both tables by using the link tables feature.

How can combining operators be used?

It's possible to combine more than one condition (rule) in a filter by using the OR or AND operator. AND will tell a database that each condition (rule) has to be met. Whereas OR will tell a database that either condition or both conditions can be met.