



Key Vocabulary

Keyword	Definition
accuracy	How close something is to its true value.
analysis	The process of collecting and interpreting facts to see how components work together.
cell	An area on a spreadsheet where data can be entered.
compare	To estimate, measure or note the similarity or dissimilarity between two or more things.
field	A named unit of information in a fixed or known location,
filter	A feature which allows you to only look at specific data.
reliability	The degree to which the result of a measurement, calculation or specification can be depended on to be accurate.

Where can you find data?	How can data be stored?
What does the 'sort' function do?	Why would you show data in chart form?

What Is a Database?

A **database** is a way of collecting a large amount of **data** in one place. This **data** could include items such as text, numbers and images and is organised using **fields**. This allows the **data** to be **searched**, **sorted** and/or **filtered** so that the information we want can be found quickly.

Analysing Data

Databases allow huge amounts of **data** to be analysed so that the required information can be found. If the information below was part of a much larger **database**, you might:

- **sort** the **data** to find the youngest pupils;
- **filter** the **data** to only look at the females;
- **search** the **data** to find information about a specific pupil.

Name	Gender	Age	Hair Colour
Ravi	M	8	Black
Claire	F	9	Blonde
Jo	F	6	Brown
George	M	11	Blonde
Harpreet	F	9	Black
Li	F	8	Black
Filip	M	7	Brown

Did You Know...?

The World Wide Web is an example of a huge **database**. Search engines are designed to **sort** and **filter** the information to help us find what we are looking for.

Data Loggers

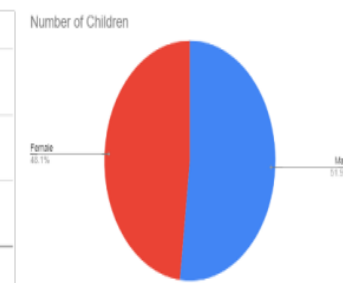
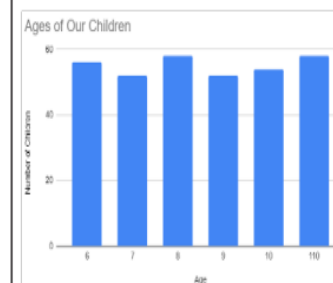
Data loggers are digital devices that have sensors that allow them to record **data** such as the temperature, light and sound levels.

By recording **data** at regular time intervals, data loggers are able to record a large amount of information.



Charts

It is often helpful to be able to see **data** in a visual form. Many **databases** can create **charts** such as pie **charts** and bar **charts** that make it easier to interpret large sets of **data**.



Top Tip!

Databases come in all shapes and sizes! When analysing data or your findings, sorting them into charts or tables could make it easier for you to make conclusions.