



# Year 5 - Autumn - Computing Knowledge Organiser

## What I already know...

- To explain that data gathered over time can be used to answer questions
- To use a digital device to collect data automatically
- To identify the data needed to answer questions

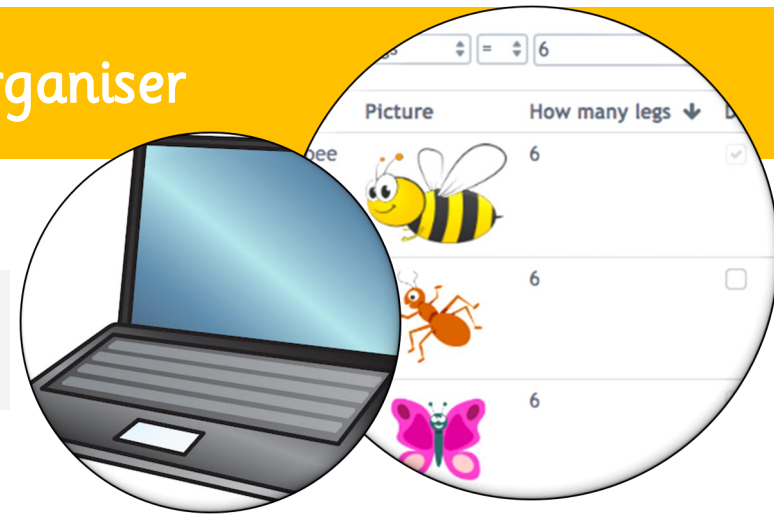
## What I will learn...

- A database is a structured set of data held in a computer, especially one that is accessible in various ways.
- Forms can be used to record information
- Data can be grouped to answer questions.
- Software tools can be used to quickly select and analyse specific data.
- Computer software is designed to compare and display data visually.

## Key Vocabulary

Data	Data can be letters, words, numbers, dates, images, sounds etc
Database	Database means a collection of organised data that is stored on a computer
Flat-file database	Flat-file database is a collection of data organised in a single table
Grouping	The action of putting things in a group. e.g. by colour
Sorting	To arrange in to groups systematically e.g. alphabetical order
Attribute	Characteristics, properties or features e.g. its 'name' and 'value'.

Country Name	Area (km <sup>2</sup> )	Population	Language	Flag	Currency
Russia	17,098,242	144192448	Russian		Russian ruble
Canada	9,980,000	35985752	English/French		Canadian Dollar
United States	9,857,306	322369312	English		United States Dollar
China	9,596,961	1376049024	Chinese		Renminbi
Brazil	8,515,767	205338000	Portuguese		Real



## Making a difference at The Merton

This unit looks at how a flat-file database can be used to organise data in records. Children will use tools within a database to order and answer questions about data. Following this, they will create graphs and charts from their data to help solve problems. They will use a real-life database to answer a question, and present their work to others.

## Making a difference at home

Create your own paper database to organise the information that you learn about animals in science! Can you group the animals based on their animal grouping: e.g.: mammal, reptile, birds?