

We are detectives

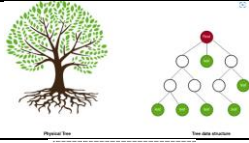
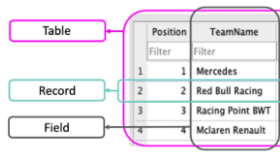
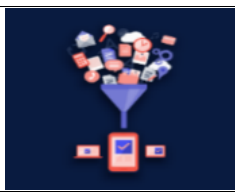
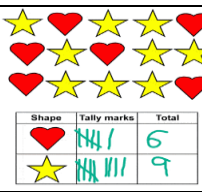
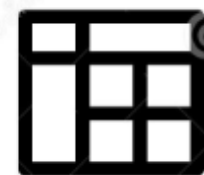
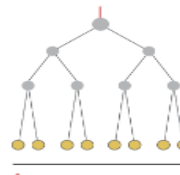
Prior Knowledge

You will have physically sorted objects in Reception by colour shape and size.

You will have learned to sort objects using Carroll and Venn diagrams in Maths and Science in Year 1.

You will have used tables to collate information in Maths and Science.

Key Vocabulary:

database		a structured collection of data organised so that groups of records can be identified	leaf		the end points of a tree data structure, where no further questions are asked
dataset		a set of data from a group related to a particular topic	record	 Name: Charles Kidd Age: 33 Height: 157 cm Pet: Dog	information in a database related to one individual or case
field		information in a database related to a single type of information given for all the records, such as age	sort:		to rearrange the order of records in a database based on the values in the fields
filter		to identify a subset of data based on one or more criteria	table		a data structure representing records as rows and fields as columns
form		a way of entering a record and sometimes viewing a database record	tree	 A Order = 2 Depth = 4 Leaves = 8	a data structure represented as an upturned tree, using questions at branch points to separate data into categories until one item is left at each leaf

Key Skills / learning: How do computers sort data?



Session 1: Playing 'name the pirate'

How can data be structured as records with fields for information?

	A	B	C	D	E	F
1	First name	Last name	Age	Height (cm)	Gender	Pet
2	Jack	Vane	25	174	Male	Parrot
3	Ted	Teach	23	180	Male	None
4	Patrick	Ormond	30	161	Male	Parrot
5	Edward	Pugwash	28	170	Male	Parrot
6	Charles	Kidd	33	157	Male	Dog
7	Lee	Roberts	28	181	Male	Monkey
8	Isaac	Drake	25	158	Male	None

How can data be organised into a table?

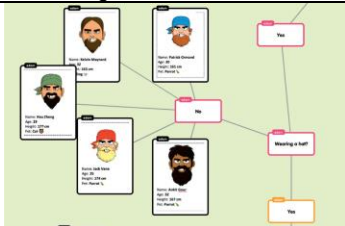


Session 2: Using PowerPoint to organise a dataset

How can data be organised into groups and subgroups?

Sessions 4 & 5: Creating a tidy table of pirate data which can be filtered

How can data in a table be filtered and searched?



Session 3: Organising the data into a tree in PowerPoint

How can data be structured as a tree?

Why should data be structured as a tree?

	A	B	C	D	E	F
1	First name	Last name	Age	Height	Gender	Pet
7	Lee	Roberts	28	181	Male	Monkey
13	Yen	Wong	21	172	Male	Monkey
26	Rachel	Nguyen	42	158	Female	Monkey
31	Zafirah	Rassi	21	159	Female	Monkey

Session 6: Applying filters to a database



Microsoft PowerPoint

Key Applications (apps)



Microsoft Excel



Microsoft Forms

Next Steps

You will build on your skills of collecting and presenting data in **Unit 2.6: We are zoologists.**

In Key Stage 2 you will develop your skills of collecting, organising and displaying data in **Unit 3.6: We are opinion pollsters**