Computing Learning Journey
Year 1 Summer Term 2nd ½
1.6 We are detectives
Using data to solve clues

Use the spreadsheet to solve clues about the pirates.

Create filters on a spreadsheet to identify subsets of the data

Input data from the cards to an online form

Organise data into a tree, using questions to create subgroups

Explore the dataset as virtual cards in Popplet

Explore the dataset as printed cards

Key Vocabulary

- **Database**: a structured collection of data organised so that groups of records can be identified
- **Dataset**: a set of data from a group related to a particular topic
- **Field**: information in a database related to a single type of information given for all the records, such as age
- **Filter**: to identify a subset of data based on one or more criteria
- **Form:** a way of entering a record and sometimes viewing a database record
- **Leaf**: the end points of a tree data structure, where no further questions are asked
- **Record:** information in a database related to one individual or case
- **Sort:** to rearrange the order of records in a database based on the values in the fields
- **Table**: a data structure representing records as rows and fields as columns
- **Tree**: 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

Software: Popplet, Google Forms, Google Sheets (alternatives: FreeMind, Bubbl.us, MindMeister, Microsoft Forms, Microsoft Excel)
Hardware: iPads (alternatives: laptop/desktop computers, Chromebooks or Android tablets)

Online safety:
We discuss the dangers of giving personal information on online forms, particularly if we have no clear idea of where this data is held and to what purposes it might be put.
Children are taught that they should only ever complete forms asking for personal information with their parents' or carers' permission.
Google Sheets has an online discussion tool that pupils can use to exchange messages. This has been disabled by our school.

Switched on Online Safety Unit:
Playing Games and Having Fun
Unit 1.6 – We are responsible gamers
Learning how to stay safe when playing online games

Unit overview:
The children will learn how:

- how data can be structured as records with fields for information
- how data can be organised into groups and subgroups
- how data can be structured as a tree
- how data can be organised into a table
- how data in a table can be filtered and searched

In Key Stage 1:
Pupils will build on their skills of collecting and presenting data in **Unit 2.6: We are zoologists.**

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