Computing Learning Journey
Year 4 Summer Term 2nd ½

4.6 We are Meteorologists

Presenting the weather

Deliver their TV-style weather forecast and reflect on learning.

Predict the weather and plan a weather forecast

Analyse the photographs taken and link them to data

Analyse the weather data collected

Record the weather over a period of time using a range of methods

Discuss ways to measure the weather and explore equipment

Key Vocabulary

- **Analogue:** continuously changing values, such as temperature or pressure
- **Data**: structured information gathered for analysis, often, but not always, as numbers
- **Dataset:** a set of data from a group related to a particular topic
- **Digital**: storing, processing or transmitting information as numbers, such as temperature to the nearest degree or pressure to the nearest kPa
- **Field**: information in a database related to a single type of information given for all the records, such as age
- **Filter** (database): 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
- **Input:** data supplied to a computer
- **Interface:** the link between one system and another, typically between the user of a program and the computer on which it runs
- **Record**: information in a database related to one individual or case
- **Sensor**: means of getting data from the real world into a computer
- **Table:** a data structure representing records as rows and fields as columns

Software: Google Sheets and Slides (alternatives: Microsoft Excel and PowerPoint)
Hardware: Laptop/desktop/Chromebook computers or tablets, Smart home weather station or other equipment for measuring for weather

Online safety:

Videos of children will be shown within school and in accordance with school policy. Children will use Google Sheets, where needed, in accordance with their AUPS.

Switched on Online Safety Unit:
Playing Games and Having Fun
Unit 4.6 – We are careful when talking to virtual friends
Virtual friendship vs real friendship; who we can trust?

In Key Stage 1:
- Pupils work with datasets in **Unit 1.6: We are detectives.**
- Pupils use browsers, data input and presentation software in **Unit 2.4: We are safe researchers.**

Unit overview:
The children will learn to:
- understand different measurement techniques for weather – both analogue and digital
- use computer-based data logging to automate the recording of some weather data
- use spreadsheets to create charts
- analyse data, explore inconsistencies in data and make predictions
- practise using presentation and video software.

In Key Stage 2:
- Pupils work with structured data in **Unit 3.6: We are opinion pollsters.**
- Pupils explore algorithms for working with structured data in **Unit 6.2: We are computational thinkers**