

We are meteorologists

Prior Knowledge

You will have worked with **datasets** in **Unit 1.6: We are detectives**. You will have used browsers, data **input** and presentation software in **Unit 2.4: We are safe researchers**. You will have worked with structured data in **Unit 3.6: We are opinion pollsters**.

Key Vocabulary:

analogue		continuously changing values, such as temperature or pressure	form		a way of entering a record or viewing a database record
data		structured information gathered for analysis, often, but not always, as numbers	input		data supplied to a computer
dataset		a set of data from a group related to a particular topic	interface		the link between one system and another, typically between the user of a program and the computer on which it runs
digital		storing, processing or transmitting information as numbers, i.e temperature to the nearest degree or pressure to the nearest kPa	record		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	sensor		means of getting data from the real world into a computer
filter		to identify a subset of data based on one or more criteria	table		data structure representing records as rows & fields as columns

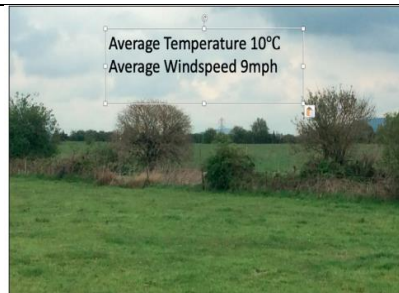
Key learning: How do we create a weather forecast?



Session 1: Experimenting with weather equipment

How do we measure weather?

What equipment can we use to measure weather?



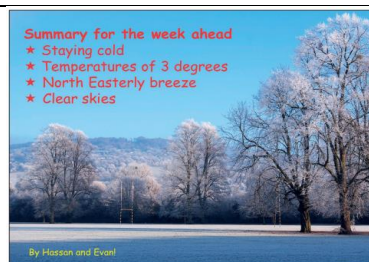
Session 4: Connecting images to the data

How can we analyse photos to show additional information about weather?

Date	Weather	Highest Temperature (°C)	Lowest Temperature (°C)	Rainfall (mm)	Max Windspeed (km/h)	Atmospheric Pressure (hPa)
10/01/2020	Fair	14	-2	0	16	1012
11/01/2020	Fair	15	-1	0	18	1012
12/01/2020	Partly Cloudy	15	0	0	18	1012
13/01/2020	Fair	17	2	0	18	1012
14/01/2020	Fair	19	4	0	18	1012
15/01/2020	Fair	17	2	0	18	1012
16/01/2020	Light Rain	19	4	2	12	1010
17/01/2020	Fair	17	-1	0	11	1010
18/01/2020	Fair	17	-1	0	18	1012
19/01/2020	Fair	18	2	0	18	1012
20/01/2020	Fair	18	2	0	18	1012
21/01/2020	Fair	17	1	0	18	1012
22/01/2020	Fair	18	2	0	18	1012
23/01/2020	Fair	17	1	0	18	1012
24/01/2020	Partly Cloudy	18	2	0	18	1012
25/01/2020	Fair	18	2	0	18	1012
26/01/2020	Fair	17	1	0	18	1012
27/01/2020	Fair	18	2	0	18	1012
28/01/2020	Fair	18	2	0	18	1012
29/01/2020	Fair	18	2	0	18	1012
30/01/2020	Fair	18	2	0	18	1012
31/01/2020	Fair	18	2	0	18	1012
01/02/2020	Partly Cloudy	17	2	0	18	1012
02/02/2020	Partly Cloudy	18	3	0	18	1012
03/02/2020	Light Rain	17	2	5	18	1012
04/02/2020	Light Rain	17	2	5	18	1012
05/02/2020	Cloudy	15	0	0	18	1012
06/02/2020	Partly Cloudy	18	3	0	18	1012
07/02/2020	Fair	17	2	0	18	1012

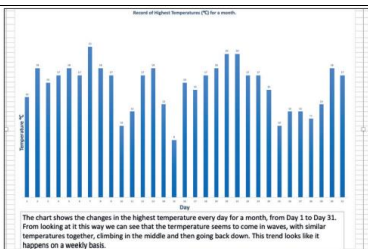
Session 2: Collecting data about the weather in a spreadsheet

How can we accurately record weather?



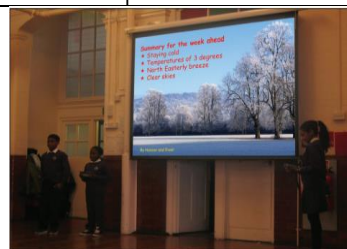
Session 5: Preparing a weather forecast presentation

How can we use our data to predict weather?



Session 3: Analysing data and creating charts to show findings

How can we analyse data about weather?



Session 6: Giving a weather forecast presentation

What key skills do we need to deliver an effective weather forecast?

Key Applications (apps)



PowerPoint



Excel

Next Steps

You will develop content for the web in **Unit 5.4: We are web developers**.

You will create blogs in **Unit 6.4: We are connected** where they focus on developing digital resilience.