



Year 4 – Summer Term 2
We Are Meteorologists
Computing



In this unit, children will bring together **data measurement, analysis** and **presentation**, as they take on the role of meteorologists and weather presenters.

Information Technology

Prior Knowledge

Children will already know how to input data into a **Spreadsheet** using **Excel** and present data that they have collected.

Measuring weather



Thermometer



Rain gauge



Digital weather station



Barometer



Anemometer



Digital thermometer

Computing Key Vocabulary

| | |
|--------------------------------|--|
| Anemometer | A device for measuring the speed of airflow |
| Barometer | An instrument measuring atmospheric pressure. |
| Chart | A chart is a graphical representation of worksheet data. Charts can make data interesting, attractive and easy to read and evaluate. They can also help you to analyse and compare data. |
| Data-logging | The process of collecting and storing data over a period of time. |
| Digital Weather Station | A digital weather station is an electronic device that receives and digitally displays weather information. |
| Forecast | A prediction of something in the future such as a weather forecast. |
| Graph | A diagram that shows a relationship between two or more changing things by lines, bars, dots, or portions of a circle. |
| Measurement | The action of measuring something. We can measure time, weight, height, temperature, length, speed, and more. |
| Prediction | A statement about what will or might happen in the future. It is often based on prior knowledge. |
| Spreadsheet | A type of computer software that allows its user to store and analyse data. Spreadsheets appear as rectangular grids, or sheets, that are made up of columns, rows, and cells. |
| Temperature | A measurement of heat. |

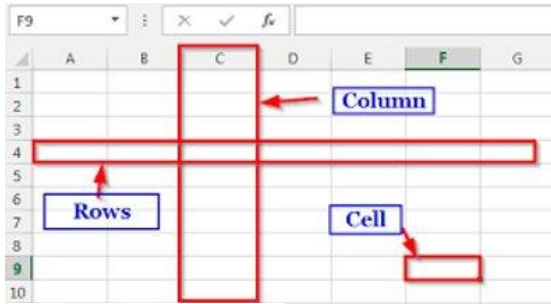


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This half term we will be using...

| Hardware | Software/Apps |
|------------------------------|---|
| Chromebooks Weather gages | Microsoft Excel Microsoft PowerPoint |



| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|----|------|------------|------------|------------|---------|----------------|----------|----------|-----------------|-----------------|-------|-------------------|-------------------------|
| | Date | Time (mst) | Wind (mph) | Vis. (mi.) | Weather | Sky Conditions | Air (°F) | Air (°C) | Wind Chill (°F) | Wind Chill (°C) | Dwpt | Relative Humidity | Pressure altimeter (in) |
| 65 | 12 | 8:56 | Calm | 10 | Fair | CLR | 29 | -2 | NA | 0 | 26 | 89 | 30.21 |
| 66 | 12 | 7:56 | Calm | 10 | Fair | CLR | 24 | -4 | NA | 0 | 22 | 91 | 30.18 |
| 67 | 12 | 6:56 | N 9 | 10 | Fair | CLR | 23 | -5 | 13 | -11 | 22 | 96 | 30.15 |
| 68 | 12 | 5:56 | N 9 | 10 | Fair | CLR | 23 | -5 | 13 | -11 | 22 | 96 | 30.14 |
| 69 | 12 | 4:56 | N 9 | 10 | Fair | CLR | 24 | -4 | 14 | -10 | 23 | 96 | 30.12 |
| 70 | 12 | 3:56 | N 8 | 10 | Fair | CLR | 25 | -4 | 16 | -9 | 24 | 96 | 30.12 |
| 71 | 12 | 2:56 | N 9 | 10 | Fair | CLR | 27 | -3 | 18 | -8 | 26 | 96 | 30.11 |
| 72 | 12 | 0:56 | Calm | 10 | Fair | CLR | 29 | -2 | NA | 0 | 27 | 92 | 30.12 |
| 73 | | | | | | Average | 37.97 | 3.32 | 27.03 | -1.40 | 18.23 | 52.90 | 30.13 |
| 74 | | | | | | Low | 20.00 | -6.67 | 13.00 | -10.56 | 8.00 | 11.00 | 30.04 |
| 75 | | | | | | High | 64.00 | 17.78 | 44.00 | 6.67 | 30.00 | 96.00 | 30.22 |
| 76 | | | | | | Median | 37.00 | 2.78 | 27.50 | 0.00 | 18.00 | 50.00 | 30.13 |
| 77 | | | | | | Mode | 23.00 | -5.00 | 33.00 | 0.00 | 17.00 | 18.00 | 30.12 |

E-safety: To safely search for images online.