<u>Year 4 Spring 1 - Computing – Data Handling: Investigating Weather</u>

Big Question

What would it be like to be a weather forecaster?



Key Vocabulary for the unit:

Algorithm: A sequence of instructions which, when followed, solve a problem.

Automated machine: Works without the need for human interaction, after being programmed to carry out a specific job.

Climate: The weather conditions you would normally expect in a location.

Forecast: To predict what might happen or occur as the result of something in the future (for example, weather forecasts)

Log data: A record of information that has been collected by a person or a computer, while monitoring something.

Sensor: A tool or device that is designed to monitor, detect and respond to changes for a specific purpose, such a smoke alarm, which rings if smoke is detected in the air.

Source: Where something comes from, for example milk is a source of calcium.

Spreadsheet: A file where you can input, sort and analyse data across a series of cells.

Temperature: How hot or cold something is.

Weather: The current condition of the atmosphere around the world, such as the temperature, rain, wind, clouds and sunshine.

Powerful knowledge/skills for this unit:

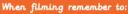
- To know that computers can use different forms of input to sense the world around them so that they can record and respond to data ('sensor data').
- ♦ To know that a weather machine is an automated machine that respond to sensor data.
- ♦ To understand that weather forecasters use specific language, expression and preprepared scripts to help create weather forecast films.

What I should already know from Year 3:

- To know that a database is a collection of data stored in a logical, structured and orderly manner.
- To know that computer databases can be useful for sorting and filtering data.
- ♦ To know that different visual representations of data can be made on a computer.

Useful diagrams for the unit:





Don't film into the light e.g by a window Don't stand too close or too far away Make sure you surroundings are quiet

Let the presenter know when to start by saying, "3,2,1 action!"

Keep the presenter in the middle of the screen - no chopped off heads!