Year 4 -Investigating weather - Term 2

"Let your light shine." Matthew 5:16
Beacon Curriculum Computing — Billinge St. Aidan's CE Primary School

Key Vocabulary

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.
Calculate	To use mathematics to discover, prove or solve something.
Climate	The weather conditions you would normally expect in a location.
Device	Equipment created for a certain purpose or job.
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.
Predict	To make an educated guess, as to what might happen or occur as the result of something in the future.
Record	To log information in the present (for example data during a science experiment), to look back on it in the future.
Sensor	A tool or device that is designed to monitor, detect and respond to changes for a specific purpose, such as a smoke alarm, which will ring 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.

A weather station uses a system of sensors to monitor the atmosphere:

Anemometer — Temperature and humidity probes — Recording data — Solar panel — Rain gauge
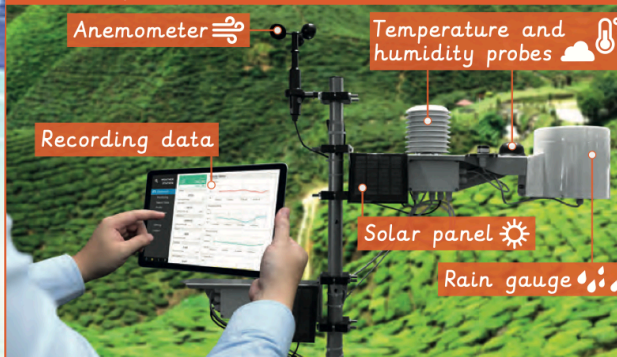
Weather satellites collect and send data back down to Earth, after monitoring the atmosphere from space.

Altimeter — GPS — Solar array — Transmitting data — Solar array
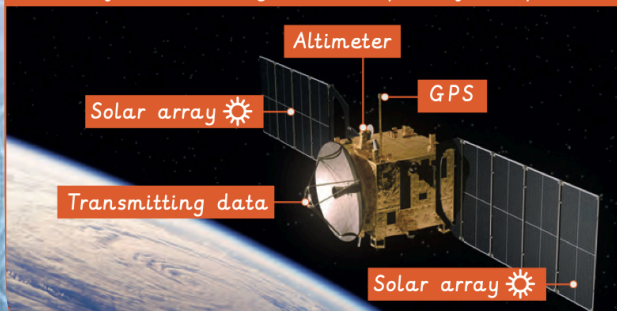
To know statements ✔✗

To know statements	✔✗
I know how to search the web efficiently to find temperatures of different cities and record this accurately. I can understand the importance of data in weather forecasting	
I know how to design a weather station which gathers and records sensor data. I can explain how it works and the units of measurement it would use	
I know how to design an automated machine which uses selection to respond to sensor data and use keywords to effectively search for information on the Internet	
I know hot to search for and record weather forecast information in a spreadsheet and explain how this data is collected	
I know how to create a video which uses chroma keying and includes weather forecast information	

When filming remember to:

- Don't film into the light e.g by a window
- Don't stand too close or too far away
- Make sure your 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!

What can you remember from previous units?

How do astronauts survive on the ISS and what role do computers play in this?
What sensors are on ISS and what do they measure?

Anything else you have learnt? What have you enjoyed?