



Objectives and Sticky Knowledge

Previous Knowledge:

- To explain that data gathered over time can be used to answer questions
- To use a digital device to collect data automatically
- To explain that a data logger collects 'data points' from sensors over time
- To recognise how a computer can help us analyse data
- To identify the data needed to answer questions
- To use data from sensors to answer questions



Land Objectives and Sticky Knowledge:

To use a digital device to collect data automatically	To explain that a data logger collects 'data points' from sensors over time	To identify the data needed to answer questions	. To use data from sensors to answer questions
<ul style="list-style-type: none"> 1. I can explain what data can be collected using sensors 2. I can use data from a sensor to answer a given question 3. I can identify that data from sensors can be recorded 	<ul style="list-style-type: none"> 1. I can recognise that a data logger collects data at given points 2. I can identify the intervals used to collect data 3. I can talk about the data that I have captured 	<ul style="list-style-type: none"> 1. I can propose a question that can be answered using logged data 2. I can plan how to collect data using a data logger 3. I can use a data logger to collect data 	<ul style="list-style-type: none"> 1. I can interpret data that has been collected using a data logger 2. I can draw conclusions from the data that I have collected 3. I can explain the benefits of using a data logger

Sea:

Links with 'Sustainability and Stewardship' Golden Thread

Links to CST and CKA Values:

Year 4 Computing Knowledge Organiser

Key Vocabulary

Data logger	A data logger is a digital device that can collect data over time and store it. Data loggers designed for education will usually have built-in sensors for light, temperature, and sound, as well as the option to connect external sensors.
Input devices	Input devices allow data to be entered into a computer. Keyboards, mice, and microphones are all input devices.
Sensor	A sensor is a type of input designed to allow computers to capture data from the physical environment. Sensors can be connected to a computer to capture data about temperature, light, sound, humidity, pressure, etc. A microphone can be used to record audio into a computer, or it can be used as a sound sensor.

Sky Objectives:

1. Use repetition in programs to aid in programming efficiency.
2. Select, use and combine a variety of software (including internet services) to design and create programs.
3. Help others to understand the importance of online safety and the range of ways inappropriate content and contact can be reported.

Sensors

All these computers can have a microphone. Sometimes it can't be seen easily, like in a mobile phone.

The microphone could be used as a sensor from which data can be logged.

