Year 4 - Spring 2 - Computing Knowledge Organiser

What I already know...

- that digital devices can help us with a range of tasks.
- how to look for and correct errors.
- How to make a branching database.

What I will learn...

- 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 use data collected over a long duration to find information.
- to identify the data needed to answer questions.
- to use collected data to answer questions.

Key Vocabulary

data	Information that is collected and stored to help answer questions and see patterns.
input device	Allows data to be entered into a computer.
sensor	A type of input device to allow computers to capture data from the physical environment.
data logger	A digital device that can collect data over time and store.

Computer skills:

- 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 and use collected data to answer questions.

Making a difference at The Merton and beyond

Data logging can be used in various industries from manufacturing to health care. They are indispensable tools for businesses to ensure product quality, optimize processes and make informed decisions.

In this unit, pupils will consider how and why data is collected over time. Pupils will consider the senses that humans use to experience the environment and how computers can use special input devices called sensors to monitor the environment.

Pupils will collect data as well as access data captured over long periods of time. They will look at data points, data sets, and logging intervals. Pupils will spend time using a computer to review and analyse data. Towards the end of the unit, pupils will pose questions and then use data loggers to automatically collect the data needed to answer those questions.

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Making a difference ● Knowledge & Appreciating the world ● Building character ● Building relationships ● Promoting health and wellness