Question: What is a data logger?

Data logging.

National Curriculum Link:

-work with various forms of input
-select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information

International Baccalaureate Learner Profile Link:

Balanced.
To understand the impact on my mind, body and emotions.
Understanding the impact on others.
Principled.
To take my time and think before acting.
To remain calm, thoughtful and deliberate in my actions.

Prior Skills: Year 3	New Skills: Year 4	Future Skills: Year 5
To investigate questions with yes/no answers. To identify the object attributes needed to collect relevant data. To select an attribute to separate objects into two similarly sized groups. To explain that data can be used to answer questions. To decide what data needs to be collected to answer a specific question. To retrieve information from different levels of the branching database. To create questions with yes/no answers. To relate two levels of a branching database using AND. To compare the information shown in a pictogram with a branching database.	To suggest questions that can be answered using a given data set. To identify the data that we need to answer questions . To identify that sensors are input devices. o use a digital device to collect data automatically. To recognise that a sensor can be used as an input device for data collection. To choose how often to automatically collect data samples. To explain that a data logger captures 'data points' from sensors over time. To use a larger data set to find information. To use a computer program to sort data by one attribute. To present data in a table. To export information in different formats. To present data in a graph.	To navigate a flat-file database. To design a structure for a flat-file database. To choose different ways to view data. To ask questions that need more than one attribute to answer. To choose which attribute to sort data by to answer a given question. To choose which attribute and value to search by to answer a given question (operands). To choose multiple criteria to search data to answer a given question (AND and OR). To select an appropriate graph to visually compare data. To choose suitable ways to present information to other people.

<u>Knowledge, Skills and Understanding</u>

To create a presentation or basic digital book that is well designed, contains formatted text, images and presents information.
To read a simple database to find information.
To learn about organising the data they collect.
To understand they can create digital content using more than one app or piece of software. To independently save and open files on the device they use.

<u>Challenge</u>

<table>
<tr><td rowspan="2">Resources:
Hardware: iPads, Computers
Google Science Journal.
Teach computing page.</td><td>Websites or Apps: Apps: Book creator

https://www.stem.org.uk/community/groups/37033/data-loggers/42906
https://www.twinkl.co.uk/teaching-wiki/data-logger
https://www.tts-group.co.uk/blog/2017/03/30/data-logging-outdoors-made-easy.html</td></tr>
<tr><td>Extended Writing Opportunities:
Choose a company to follow the steps with, answering yes/no questions, grouping etc.</td></tr>
<tr><td>Vocabulary:
Data, digital device, sensors, intervals, software, data logger, interpret data</td><td>Numeracy skills:
Data handling skills.</td></tr>
<tr><td>Suggested Quality Texts:
See selection in library.</td><td>WOW Experience:
Someone from a small company show or share their own use of database used for a known company or person.</td></tr>
<tr><td colspan="2">Cross Curricular Links:
Science: observe and take measurements, new equipment.</td></tr>
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