










Summer 1						
Prior learning 	This unit progresses learners' knowledge and understanding of data and how it can be collected over time to answer questions. Specifically, it builds on the concept of answering questions with data which is first introduced in the KS1 data and information units.					
Lesson objective 	To explain that data gathered over time can be used to answer questions	<i>To use a digital device to collect data automatically</i>	<i>To explain that a data logger collects 'data points' from sensors over time</i>	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
Key vocabulary 	Data, table, layout	Input device, sensor, data logger	Data logger, logging, data point, interval	Analyse, data set, import, export	Data, data logger, logged, collection	Analyse, review, conclusion
Creative context 	BBC bitesize: https://www.bbc.co.uk/bitesize/articles/zgg9pbk Working with data: https://www.bbc.co.uk/teach/class-clips-video/articles/zp84g7h					
Substantive knowledge 	I know that data means information. It can be shown in tables, charts or graphs. I know why data collection is important. I know what data is collected in my everyday life. I know that it's important to know the question being asked prior to collecting data. I know that the instructions for collecting data need to be clear to ensure its objective.	I know that computers can have input devices called sensors, e.g. a microphone. I know that data on the datalogger can be recorded by hand or automatically.	I know that data loggers can collect data independently from a computer. I know that a data logger can record temperature, light, and sound 50 times a second. I know that datalogger is a more accurate form of data collection compared to humans.	I know that data can be sorted which makes it easier to identify and enables you to see changes over time easier in a graph.	I know why data is collected and why it is important. I know that the position and location of the data logger will influence the data.	I know that dataloggers are beneficial because they collect data automatically and without the need for a person, the data is consistent and more accurate.
Disciplinary knowledge	I know how to keep a tally of information.	I know how to use the datalogger to collect data.	I know how to stop the datalogger recording.	I know how to interpret data from a graph.	I know how to plan a data collection activity by creating a	I know how to create a graph from the data collected.

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		<p>I know how to use the EasySense2 software to create a graph.</p>	<p>I know how to connect the datalogger to a computer and download the data.</p>	<p>I know how to use premade data to create a graph.</p>	<p>question and predicting the outcome. I know how to test the dataloggers.</p>	<p>I know how to read a graph. I know how to write a data report.</p>
<p>Recorded learning</p> 	<p>Children will collect data based on a video.</p>	<p>Children will use dataloggers to take light, temperature, and sound readings from around the classroom.</p>	<p>Children will record temperature changes over time based on a video.</p>	<p>Children will interpret and answer questions based on premade data.</p>	<p>Children will plan their own data logging activity and collect the data.</p>	
<p>Outcome for unit</p> 	<p>Final piece: the graph created from the data they collected and the report they wrote about it (keep the report).</p> <p>End of unit evaluation – Please complete the teacher/self-evaluation slide for this unit (the slide is in the folder), by writing their names in the correct boxes.</p>					
<p>Future learning</p> 	<p>The unit also introduces the idea of automatic data collection. Learners are also introduced to data in tables and graphs, knowledge they will build on in the Year 5 unit (flat file databases) and the Year 6 unit (spreadsheets).</p>					