

Year: 4

Term: Summer 1

Topic: Data and Information - Data Logging



St Dennis Primary Academy

"Everyone matters, everyone succeeds, every moment counts"



Data is raw numbers and figures. **Information** is what we can understand from analysing data. There are lots of different ways that we can **collect, log and interpret data**, including by using **data loggers** to automatically capture data.

Asking Questions: Data gathered over time can be used to answer important questions. Before collecting data, we need to carefully consider which questions we are trying to answer.

Sensors: Our senses (sight, hearing, smell, taste, touch) detect things in our environment. Computers have input device sensors which help them to sense things.

Data Loggers: Data loggers have built-in sensors which are used to detect and record data.

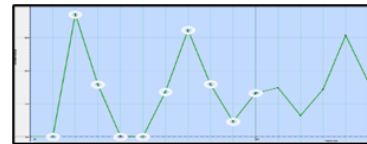
	23/02/16	01/03/16	08/03/16
Seb	Red	Red	Green
Anusha	Green	Green	Green
Belle	Green	Green	Green
Patrick	Red	Red	Green
Reece	Red	Red	Green
Ollie H	Red	Red	Green
Ollie	Red	Red	Green
Oliver D	Green	Green	Green



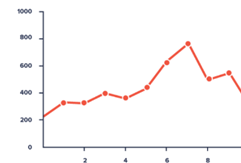
Some data loggers record data themselves, which we can download later. Computers can help us to record data, e.g. by connecting our data loggers to computers and opening data logging software to show data in different charts and graphs.



An advantage of this is that computers can record data automatically, meaning that someone does not need to sit waiting for a long period of time. Data loggers can be set to measure at different **intervals** (points in time).



Analysing Data When scientists collect data, they usually store it so that it can be analysed at any time. Tables and graphs can be used to present the data in a useful way for reading and understanding it. It is important to be able to see trends as clearly as possible.



Answering Questions The reason to collect data is to answer questions. It is important to ensure that the testing that you do is fair and reliable, otherwise the data that you get back may not give you the accurate answers that you need.

Glossary

- collection** Gathering information or data together.
- conclusion** Using data to make
- data point** Single piece of information or data with a data set.
- data set** A collection of related data.
- export** Sending data from the data logger to the computer.
- import** The computer receiving data from the data logger.
- input device** A piece of hardware used to control, or send data to a computer.
- logged** Data that has been recorded.

