Year 4 Red Kites

Computing

Summer 1

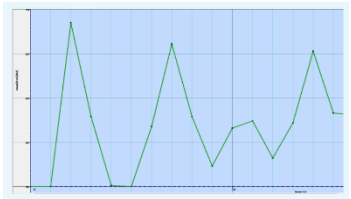
Data

Logging

Key Vocabulary	Definition
analysing	Looking at the data collected to see if it can help answer a question.
conclusion	Using the collected data to answer a question.
data	Information you want to collect.
data Loggers	Device to help collect data quickly and accurately.
export	Taking the collected data out of the data logger and onto a computer to be able to read the data.
input	Collecting data into a data logger.
interpreting data	Understanding what the data collected is telling you.
recording data	Keeping a log of data collected.
review	Seeing if you have enough data to answer the question.

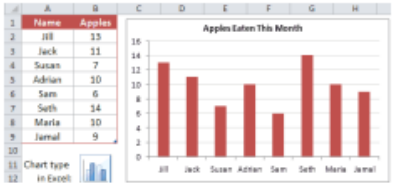
Recording Data

Using data loggers, data can be collected very quickly, much quicker than by manual recording.
On this graph, you can see the moments when data was recorded.
In this example, data was collected every second.
This was possible using a data logger.



Analysing Data

When scientists collect data, they usually store it so that it can be analysed at any time. The data can also be shared so that other scientists can use it.
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 clearly.



Why do we collect data?

We collect data to give us information about things.
This register is an example of data collection.

Register										
Name	Reg	Mon 07/05		Tue 08/05		Wed 09/05		Thu 10/05		Fri 11/05	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Addy, George	Y4D	/	\	/	\	/	\	/	\	/	\
Ahmed, Zahir	Y4D	/	\	/	\	/	\	/	\	/	\
Bocci, Sofia	Y4D	/	\	/	\	L	\	/	\	/	\
Brand, Mabel	Y4D	/	\	/	\	/	\	/	A	/	\
Chang, Freya	Y4D	A	\	/	\	/	\	/	\	/	\
Droffer, Michael	Y4D	/	\	/	\	/	\	/	\	/	\
Fuller, Jane	Y4D	/	\	/	\	/	\	/	\	/	\
George, Freddie	Y4D	/	\	/	\	/	\	O	O	O	O
Hussain, Soni	Y4D	/	\	/	\	/	\	/	\	/	\
Jones, Gemma	Y4D	/	\	/	\	/	\	/	\	/	\

How can we collect data accurately?

Gathering information by counting cannot always be accurate.

	Number
Red cars	5
Black cars	12
Blue cars	3
Silver cars	14
White cars	3
Non-cars	2

Data loggers help us to collect data in an accurate way

Why is data collection important?

Data can be used to help us answer a question. After data has been collected, it needs to be analysed.
Can the question be answered?
Does the data tell us anything else?
Once the data is reviewed, information about what has been found out can be shared with other people.