

# Broadmayne First School Knowledge Organiser

**Science Focus**

**Working Scientifically**

**Year 3/4**

**Overview of year**

Vocabulary	Definition
enquiry	Setting up a test to find out the answer to a scientific question.
prediction	Saying what you think is going to happen, based on what you already know.
method	Instructions to describe what you are doing.
recording <i>my observations</i>	Writing down what you are seeing in a table, chart or notebook.
report	Writing sentences to describe what you have seen (observed).
data/results	The information you have collected. It is usually a set of numbers or measurements.
findings	This is an explanation of what your data is telling you.
conclusion	A sentence to explain what you have found out and an answer to the enquiry question.
<b>Fair Test</b>	
A fair test is very important in a science enquiry. It helps us to find out the effect of one thing on another. When we are testing a question, we must only change 1 factor, otherwise it is not FAIR. A good scientist always completes a fair test. You must decide what is changing and what is staying the same and stick to it for the whole enquiry!	

## Practical resources used



Thermometer



Data Logger



Magnifying glass




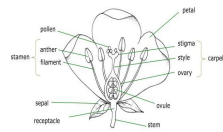
Microscope

## Useful Science Websites

[http://www.bbc.co.uk/schools/websites/4\\_11/site/science.shtml](http://www.bbc.co.uk/schools/websites/4_11/site/science.shtml)

<http://www.sciencekids.co.nz/gamesactivities.html>

## Key Knowledge

We can show what we have found out in different ways.			We can ask scientific questions in different ways.													
Graphs and charts	Labelled diagrams	Table	<u>"How?"</u> questions can help us to find out how something works.	<u>"What happens when...?"</u> questions help us to investigate the effect of changing something.												
		<table><tr><th>Temperature Setting</th><th>Actual Oven Temperature</th></tr><tr><td>200°</td><td>170°</td></tr><tr><td>250°</td><td>195°</td></tr><tr><td>300°</td><td>220°</td></tr><tr><td>350°</td><td>245°</td></tr><tr><td>400°</td><td>270°</td></tr></table>	Temperature Setting	Actual Oven Temperature	200°	170°	250°	195°	300°	220°	350°	245°	400°	270°	<u>"Why?"</u> questions can help us understand the relationship between things we have seen.	<u>"Which?"</u> questions help us to choose between different things and see which is best for the job.
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