



# Glebe Junior School

## How do we teach Science at Glebe?

Along with English and Maths, Science remains one of the main core subjects. Science lessons at Glebe aim to create an evidence-based understanding of the world around us including investigating, exploring and questioning. Where appropriate, we like the children to be as hands on as possible so that they have first-hand experience of the key scientific skills that are taught throughout primary school. This in turn allows children to assimilate new information and understanding of the world around them.

At Glebe, we use PLAN supporting documents to enhance our planning and teaching of Science. This ensures that lessons are built on from the previous year and we create a steady progression from Year Three through to Year Six. We also use Developing Experts which links the Science topic they are learning about, with real life careers that the children could possibly pursue. A positive primary Science experience is key to increasing science capital and encouraging future generations to not only study this at secondary school, but to follow it as a career.

Underneath is an explanation of the scientific symbols we use here at Glebe. When we are practising a particular scientific skill in a lesson, the children will identify it and tick it off in the tracker that is found at the front of their Science books.

<p><b>Asking questions</b> Asking questions that can be answered using a scientific enquiry.</p>	
<p><b>Making predictions</b> Using prior knowledge to suggest what will happen in an enquiry.</p>	
<p><b>Setting up tests</b> Deciding on the method and equipment to use to carry out an enquiry.</p>	
<p><b>Observing and measuring</b> Using senses and measuring equipment to make observations about the enquiry.</p>	
<p><b>Recording data</b> Using tables, drawings and other means to note observations and measurements.</p>	
<p><b>Interpreting and communicating results</b> Using information from the data to say what you found out.</p>	
<p><b>Evaluating</b> Reflecting on the success of the enquiry approach and identifying further questions for enquiry.</p>	



MUSIC MARK SCHOOL



RSE Award



Artsmark Silver Award  
Awarded by Arts Council England



Derbyshire Healthy Schools Community Award

Investigations and experiments will fall into one of five categories. Using the PLAN documents and Developing Experts, we can ensure that your child will be covering them all throughout their time at Glebe. Please find the definition of these below. These are also ticked off in their Science trackers found at the front of their Science books.

	<p>In a <b>comparative test</b>, the variable that is being changed is catergoric i.e has labels such as the names of plants.</p> <p>In a <b>fair test</b>, the variable that is being changes is quantifiable i.e can be counted or measured.</p>
	<p>Some questions can be answered by naming things or sorting them into groups. To do this, it may be necessary to carry out a simple test or use secondary sources.</p> <p>Example: Which materials are transparent, translucent and opaque?</p>
	<p>Some questions cannot be answered by the pupils using first hand experiences, for ethical or practical reasons, and therefore need to be answered using secondary sources.</p> <p>Example: How far is the Earth from the sun?</p>
	<p>Some pattern seeking questions are answered by carrying out a survey.</p> <p>Examples: Where in the playground do minibeasts live?</p>
	<p>Some questions can be answered by observing how living things, materials or processes change over time. There observations may take place over different time spans from minutes to hours, to several weeks or months.</p> <p>Example: How long will it take a cloth to dry?</p>

We recognise that accurate scientific writing is very important in this subject. This is why key English teaching points are also referred to throughout these lessons. Twice a year children will have the opportunity to complete a longer piece of writing that will be marked in the same way as our English 'Hot tests' are marked as per the English policy. This may be a scientific explanation, investigation write up or a biography of a famous scientists.

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