

## Intent, Implementation and Impact in Science



<b>Intent</b>	<b>Implementation</b>	<b>Impact</b>
<p>At Beaulieu Village Primary School, we aim for our children to become proficient scientists who are excited to ask and answer scientific questions about the world around them.</p> <p>Science at Beaulieu...</p> <ul style="list-style-type: none"> <li>● motivates pupils to explore the world around them and change it for the better</li> <li>● nurtures pupils' natural curiosity and helps develop inquiring minds</li> <li>● encourages pupils to ask 'how' and 'why' questions, with the main aim of finding out the answers</li> <li>● helps pupils develop the skills to think critically, solve problems and make decisions</li> <li>● develops in pupils an attitude of respect for themselves, others and the world around them</li> </ul>	<p>At Beaulieu, we know to be a proficient scientist children need a well planned curriculum that is rich in knowledge, skill, real life experiences and enrichment. We believe science learning should be engaging and inspiring.</p> <p><u>Teaching</u></p> <p>We use White Rose Science curriculum planning. White Rose promotes a small steps approach. Essential aspects of key stage science are broken down into easily digestible chunks. Science is taught weekly and takes part inside and outside the classroom.</p> <p><u>Monitoring</u></p> <p>Effective teaching and learning of Science is monitored through assessment moderations, learning walks, moderation of planning, book looks, pupil conferencing and dedicated staff meeting development time.</p>	<p>By the end of their time at Beaulieu Village Primary School children can:</p> <ul style="list-style-type: none"> <li>● show curiosity and excitement to learn more</li> <li>● be patient and persistent</li> <li>● observe things closely</li> <li>● predict, examine and investigate</li> <li>● reason and justify</li> <li>● conclude and analyse findings</li> <li>● question evidence</li> <li>● link their learning in science to real life situations</li> <li>● confidently ask questions to find out more</li> <li>● plan investigations and record results</li> <li>● apply scientific knowledge and skills independently</li> <li>● understand and use scientific vocabulary correctly</li> </ul>

- fosters a lifelong curiosity and interest in the Sciences (Biology, Chemistry and Physics)

#### Retrieval Practice

Making links with existing knowledge is an important aspect of science learning. Retrieval tasks form a part of every science lesson to ensure embedded learning.

#### Substantive Knowledge

Children are taught scientific knowledge progressively across their whole learning journey at Beaulieu. Substantive knowledge is taught explicitly.

#### Disciplinary Skills

Children are specifically taught disciplinary skills. They are broken down into small components and taught progressively from EYFS through to Year 6.

#### Vocabulary

Vocabulary is displayed in classrooms and referred to during each science lesson. Staff promote the use of scientific vocabulary when working with children in the world around them. Providing children with a rich scientific vocabulary is vital for children to be able to explain their scientific knowledge and skills.

Subject specific vocabulary is identified in each learning journey and is built on year by year.

Safety

When planning schemes of scientific learning staff refer to the *HIAS Safety in Science* document and apply the advice during teaching and learning with the children.

