

Subject: Science

Intent
<p>We want our children to become Scientists, have that awe and wonder about the world around them. Our intent is to provide children with a broad and balanced Science curriculum, which increases their knowledge and understanding of the world. We want to develop a fun, practical and engaging curriculum that inspires them to succeed and excel in Science. We want to foster a curiosity and interest in the Sciences. We want our children to remember their Science lessons and we want them to have no limits to their ambitions so they aspire to grow up to be an astronaut, palaeontologist, doctor.</p> <p>At the heart of our Science curriculum is scientific investigation. We want them to be equipped for life and be able to ask and answer scientific questions. We want to develop and extend their scientific vocabulary, knowledge and experience. We want practical, hands on experiences that stimulates and encourages curiosity and questioning.</p>
Implementation
<p>Welsh House Farm has developed their own Science curriculum, which provides full coverage of the National Curriculum following the programmes of study for each year group. We have used the PLAN knowledge matrices and STEM to support this. We provide a balance between working scientifically and learning scientific facts. It gives progression across all key stages. Our Science curriculum provides:</p> <ul style="list-style-type: none"><li>• Topics, which allow children to focus on developing their knowledge, vocabulary and skills.</li><li>• The curriculum linking directly to scientific knowledge, skills and understanding to ensure that learning is progressive and continuous.</li><li>• Children using a range of resources to develop their knowledge and understanding that is integral to their learning and develop their understanding of working scientifically.</li><li>• Plans for problem solving and real life opportunities that enable children to fully participate and find out for themselves. Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers.</li><li>• Planning which involves teachers creating practical, engaging lessons.</li><li>• Working scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's development.</li><li>• Assessments that are completed once each topic has been taught.</li><li>• Each year group will build upon the learning from prior year groups and therefore develop depth of understanding and progression of skills.</li><li>• Teachers promote enjoyment and foster interest of all 3 science disciplines: Biology, Physics and Chemistry.</li><li>• Children explore, question, predict, plan, carry out investigations and observations as well as conclude their findings.</li><li>• Children present their findings and learning using scientific language, observations and diagrams.</li></ul>

- Through enrichment times, such as trips and Science Week, we promote the profile of Science and allow time for the children to explore scientific topics and interests.

#### Impact

The successful approach to the teaching of Science will result in a fun, engaging, high quality science education that will provide our children with the foundations required for understanding the world and to continue their life.

Children will:

- Show a love for Science and an interest in it.
- Retain scientific knowledge.
- Question ideas and reflect on knowledge.
- Articulate their understanding of scientific concepts and be able to reason scientifically using scientific vocabulary.
- Demonstrate skills in Mathematics and English through their work, organising, recording and interpreting results.
- Be able to work collaboratively and practically to investigate and experiment.
- Be expected to leave our school achieving their age related expectations for Science.
- Be enthusiastic Science learners through various workshops, trips and events and understand that Science has changed our lives and is vital for their future.