South Wingfield
PRIMARY SCHOOL

South Wingfield Science Intent, Implement and Impact

Intent

Science at South Wingfield Primary encourages curiosity, develops inquisitive minds and fosters a fascination with how the world works around them. We aim for children to acquire specific skills and knowledge to help them think scientifically, to gain an understanding of the scientific processes and also an understanding of the uses and implications of Science, today and for the future. At South Wingfield Primary School scientific enquiry skills are embedded in each topic that the children study and the key concepts within these topics are revisited, developed and embedded throughout their time at school. Topics such as Plants, are taught from EYFS and studied again in further detail throughout Key Stage 1 and Key Stage 2. The development and revisiting of key concepts allows children to build upon prior knowledge and increase their enthusiasm for the topics whilst embedding this procedural knowledge into the long-term memory. Children at South Wingfield will learn and enjoy science through practical and investigative work. All children are encouraged to develop and use a range of skills including observations, planning and investigations, as well as being encouraged to question the world around them and become independent learners in exploring possible answers for their scientific based questions. Children are taught how to use age-appropriate equipment and resources safely and accurately. Children with Special Educational Needs will be supported to access the science curriculum in the classroom by teacher support and variation of task and questioning to make age related objectives accessible for all pupils. At South Wingfield, we utilise the natural environment and use opportunities to explore key scientific concepts both inside and outside. We aim to give children wider opportunities linked to the Science curriculum such as school trips liked to topics, Science Ambassadors and Science Day experiences. We aim to provide an excellent foundation for further learning in KS3.

Implementation

- A clear and comprehensive scheme of work in line with the National Curriculum where teaching and learning should show progression of Key Concepts across all key stages within the strands of Science.

- Children have access to key language and meanings in order to understand and readily apply to their written, mathematical and verbal communication of their skills.
- Children will use a range of resources to develop their knowledge and understanding that is integral to their learning and develop their understanding of working scientifically.
- Teaching and learning should be practical and have investigative opportunities within Science lessons.
- Children will reflect on previous learning and cross curricular links will be made wherever possible
- Children will be able to build on prior knowledge and link ideas together, enabling them to question and become enquiry based learners.
- Attainment will be assessed each half term through related topic assessment tasks. Teachers will then assess their progress throughout the year in Science as whole as well as assessing progress within each topic throughout the child's time at school.
- Ambitious extra curriculum opportunities carefully planned linked to topics such as school trips, science days, visitors and Science Ambassadors.
- The EYFS setting provides a rich language environment for children to give children the best start to their Scientific learning. Adults identify and model scientific vocabulary appropriate for the topic and age. They further embed vocabulary using simple definitions, images and actions which can be repeated. Children are encouraged to say the words for themselves and use them in context.

Impact

- Most children will achieve age related expectations in Science at the end of their cohort year.
- Children will retain knowledge that is pertinent to Science with a real life context.
- Children will be able to question ideas and reflect on knowledge.
- Children will work collaboratively and practically to investigate and experiment.
- Children will be able to explain the process they have taken and be able to reason scientifically.
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