

# SUBJECT OVERVIEW: Science



| <b>INTENT:</b> <i>What we want to achieve</i>  | <b>IMPLEMENTATION:</b> <i>How we will achieve it</i>   | <b>IMPACT:</b> <i>What the outcome will be</i>  |
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| <p>South End Infant School delivers the National Curriculum science objectives through hands on, practical lessons with 'working scientifically' at the core of each unit of work. As an inclusive subject we aim for all children to develop an enthusiasm for the subject and a strong understanding of the world around them by teaching scientific concepts through the use of first-hand practical experiences, which include a range of visitors, as well as using some appropriate secondary sources, such as books, photographs and videos to support children's learning.</p> <p>South End Infant School aims to build on prior knowledge and develop independent, questioning learners by encouraging the children to ask questions about what they notice, express their opinions and make links with other areas of learning.</p> <p>In EYFS the children use their curiosity to explore concepts that give them the experiences necessary to acquire specific skills and knowledge in KS1, to help them to think scientifically, to gain an understanding of scientific processes and to use subject specific vocabulary.</p> <p>Children will plan, carry out and evaluate experiments and observations throughout their time here and by the end of Year 2 we expect that they are able to do this independently with confidence. Children choose what, how and why they use resources and discuss with their peers their reasoning for doing so. We help to build happy scientists who leave our school ready to take on their next challenge in year 3.</p> | <p>We will ensure that our curriculum provides a progressive, skills-based approach to the subject which is based on the National Curriculum and Early Year Foundation Stage Curriculum.</p> <p>This will be delivered through a cycle of lessons, which carefully plans for progression and depth. Teachers will deliver lessons that include elements of working scientifically so that all elements of working scientifically are covered in each unit and therefore revisited each term.</p> <p>We will deliver lessons that promote enthusiasm and relate to children's personal experiences and the world around them. Lessons will offer a starter activity that will assess prior knowledge, show progression and give opportunities to revisit vocabulary.</p> <p>We will invite visitors in (or make visits) who can share their knowledge and experiences related to the units of work. This includes 'work in science, science in work' day where people in familiar and scientific roles come in to discuss their jobs and how science relates to many aspects of life. Teachers will use many forms of formative assessment to monitor understanding and plan next steps for children which are personal to them.</p> <p>A knowledge organiser which outlines knowledge (including vocabulary) to be shared with children and adults at home</p> | <p>At South End Infant School we have a range of ways to find out what the children know. We observe children during set independent activities to see how they are using the new vocabulary they have been introduced to, and to see their understanding of what has been taught. We encourage the children to talk during class discussions, group and paired work. We take photos and annotate these with comments made in the lessons.</p> <p>Monitoring in science includes work book scrutiny, lesson observations and/or learning walks, pupil voice interviews / questionnaires in order to ascertain correct curriculum coverage, the quality of teaching and learning as well as the children's attitudes to learning science. This information is then used to inform further curriculum developments and provision is adapted accordingly.</p> <p>Observation folders and topic books continue from Year One to Year Two to build up a profile for each child to aid end of year assessment. With a more focussed approach to 'working scientifically' we will have more evidence to aid our end of KS1 assessments and complete online tracking and it will enable teachers to fill in individual learning gaps.</p> |