

Leechpool Primary - Science

| Intent | Implementation | Impact |
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| <ul style="list-style-type: none"> •To distil a lifelong love of science within our pupils. This will help give children the tools to improve the world. •To provide a knowledge rich and varied curriculum to challenge and meet the needs of our children. All pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. •From EYFS up to KS2 our pupils will build up a body of key foundational knowledge and concepts, pupils are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. This includes use of the local community and area. •To provide our children with wider opportunities in science and make links to other subjects and the wider world. Preparing our children for life in an increasingly scientific and technological world. •To develop the skills of investigation – including observing, measuring, predicting, hypothesising, experimenting, communicating, interpreting, explaining and evaluating. •To provide challenges that are practical, imaginative, purposeful, well managed and enjoyable that motivates children through first-hand experience. •To promote STEM (Science Technology Engineering and Maths) to give children an increasing understanding of Science in the 'real world'. | <p>Planning</p> <ul style="list-style-type: none"> •Use of the National Curriculum's Programmes of Study •Teachers 'interleave' the main scientific concepts into the curriculum making it a knowledge rich learning process. •Children are provided with regular opportunities to develop strategies for questioning and thinking. •Teachers plan and challenge pupils based on the progressive curriculum Medium Term Plans •Give opportunities for children to develop scientific enquiry, and develop their understanding of knowledge and concepts. We share our expectations of achievement with the children. •In our school, we strongly encourage all pupils to use specific topic related vocabulary, which can be found in and around the classroom <p>Teaching</p> <ul style="list-style-type: none"> •Maintain a high level of subject knowledge of science in our school by regular training and professional development. •Use the expert knowledge that staff hold effectively and across the school. •Through effective teaching of science, we develop children's knowledge and key skills during each topic. •In the Foundation Stage the school follows the Early Years Foundation Stage Curriculum where science is taught through the developmental | <ul style="list-style-type: none"> •Do Children enjoy and are enthusiastic about science in our school? •Is a clear progression of children's work and teachers' expectations in our school? •Does children's work shows a range of topics and evidence of the curriculum coverage for all science topics? •Are children aware of the processes of scientific enquiry, i.e. planning, reviewing etc.? •Is there coverage and progression of scientific skills across the school? •Are there cross-curricular links between Science and other subjects? •Are children aware of the specific skills that they are learning? •Are children able to recognise their scientific achievements and acknowledge where they can improve? •Are teachers making the children aware of their next steps skills? •Are becoming increasingly independent in science, selecting their own tools and materials, completing pupil lead investigations and choosing their own strategies for recording? •Are the SLT and governors are kept up to date with developments in the way science is run in our school with subject reports, action plans and review meetings? |

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| | <p>stages and early learning goals for Understanding the World.</p> <p>Assessment</p> <ul style="list-style-type: none">•Teachers use assessment for learning to tailor lessons around our children and help us plan for next steps.•Regular monitoring shows that our children understand and apply key scientific principles within their work.•Use of Target Tracker to monitor and assess, which is kept up to date and works towards our school improvement plan.•Teachers use the Science assessment grid to formatively assess each unit for the each child. This assessment follows the children up through the school. | |
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