

Science: Intent, Implementation and Impact



Intent

- It is our vision to instill a lifelong love of science within our pupils. Science has changed our lives and is vital to the world's future prosperity.
- We intend to provide a rich, practical and varied curriculum to challenge and meet the needs of our children. We believe 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.
- We want to provide our children with wider opportunities in science to extend their interests and make links to other subjects.
- Teachers plan and challenge pupils based on our new scheme by Hamilton Trust, they adapt lessons to ensure their classes needs are met.
- We monitor our schools progress in science regularly in line with our science policy.

Implementation

- We maintain a high level of subject knowledge of science in our school by having an open-door policy with our Science Lead and professional development sessions.
- Teachers use assessment for learning to tailor lessons around our children and help us plan for next steps.
- In our school we strongly encourage all pupils to use specific topic related vocabulary.
- Through effective teaching of science, we develop children's knowledge and key skills during each topic.
- With effective subject management we are a well-equipped and resourced school.
- Regular monitoring shows that our children understand and apply key scientific principles within their work.
- Children are provided with regular opportunities to develop strategies for questioning and thinking.
- In our school we have a rigorous monitoring process which is kept up to date and works towards our school improvement plan.

Impact

- Children enjoy and are enthusiastic about science in our school.
- There is a clear progression of children's work and teachers' expectations in our school.
- Children's work shows a range of topics and evidence of the curriculum coverage for all science topics.
- Children are becoming increasingly independent in science, selecting their own

tools and materials, completing pupil lead investigations and choosing their own strategies for recording.

- Feedback from teachers has an impact on our pupils, often with next step questions to push learning on.
- Standards in science at the end of the key stages are good and issues arising are addressed effectively in school.
- Teachers' judgements are moderated internally and externally where appropriate through book looks and staff meetings.
- Our 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.