

Teach skills that progress from EYFS to Year 6

Recognise the importance of science in every aspect of daily life

Increase pupils' knowledge and understanding of the world

Develop pupils' skills associated with science as a process of enquiry

Develop the natural curiosity of each pupil

Enable children to become enquiry based learners

 **IMPLEMENTATION – How do we achieve our aims?**

Planning:

Science is planned using the National Curriculum, alongside supporting documents *PLAN* and *Grammarsaurus*. Planning ensures progression across the school from EYFS to Year 6. Children are taught topics in year groups; all children are given the opportunity to investigate (working scientifically) in each topic. All pupils have the opportunity of visits and visitors to bring their science learning to life; for example, visiting the Magna Science Centre, having animals brought into the classroom, and going to Brackenhurst.

Recording:

Children in KS1 record their Science work in a class floor book. This means that the focus in lessons is on discussion and participation rather than writing. Children can respond in a variety of ways; this is recorded in the shared book. In KS2, children have a science book and work can be recorded in writing, diagrams and photographs. Work is also recorded on videos. We ensure that time is given to writing a conclusion following an investigation. These conclusions demonstrate the depth of the children's knowledge and understanding.

Assessment: Science is assessed at the end of each half-termly unit using an assessment grid which links directly to the objectives used for planning. These objectives are taken from the National Curriculum. Teachers use their professional judgement based on both oral and written responses. Assessments are based upon a variety of sources: quizzes, tests, discussions, written/recorded reports.

Vocabulary:

Developing the use of the correct vocabulary in science is crucial and so key vocab is identified and listed for each unit of learning. This is then used to assess knowledge and enables pupils to express and communicate their understanding clearly and effectively.

EYFS: Our children's journey in science starts in EYFS which is why our progression document begins here. Science at Foundation Stage is covered in the 'Understanding the World' area of the EYFS Curriculum. It is introduced through activities that encourage every child to explore, problem solve, observe, predict, think, make decisions and talk about the world around them.

Values: 'SHINE LIKE STARS'

Love others: we value all people **Reach out:** we learn about significant scientists
Everyone join in: science is an inclusive subject **Never give up:** all our responses are valued and we learn from our mistakes
Always do your best: we ask questions and investigate

SEND: Our children with SEND access the science curriculum through careful teacher assessment. Lessons are carefully planned and resourced to enable all children to access their learning at an appropriate level, helping them to engage and be challenged. Children are supported in a variety of ways e.g. support from Teaching Assistant, or peers, differentiated activities.

 **IMPACT – How do we know if we've achieved our aims?**

Evidence shows progression of what is taught

Children can question ideas and reflect on their knowledge

Children can draw conclusions following investigations

Children are equipped with scientific skills and knowledge, ready for life beyond primary school

Children can suggest ways to investigate a hypothesis, ensuring the test is fair

Children are able to articulate their understanding of scientific concepts using scientific language