



Science

At Eastington Primary School, we endeavour to promote the development of the whole child. Together, we strive for children to be independent, life-long learners who are kind, cooperative, resilient, responsible and ambitious in all they do.

Our school values underpin our broad and balanced curriculum. We aim for children to enjoy and engage in the wide range of learning opportunities provided, resulting in confident, well-rounded individuals who are ready for their next steps.

Relationships amongst all members of our school family are highly valued and we have kindness at the heart of our school. We aim to develop children who care for themselves, each other and the wider world and encourage everyone to be the best they can be.

Aiming high together to be:

- Kind - show respect and care
- Cooperative - work well together
- Resilient - keep trying
- Responsible - reflect and learn
- Ambitious - challenge yourself

Intent:

At Eastington, we understand that children are naturally curious and we encourage this inquisitive nature throughout their time with us and beyond. Science fosters a healthy curiosity in children about our universe and promotes respect for the living and non-living. We believe science encompasses the acquisition of knowledge, concepts, skills and positive attitudes. Through the programmes of study in the National Curriculum science document, children will acquire and develop these skills throughout their Primary years. We ensure that the Working Scientifically skills are built-on and developed throughout their school career so that they can use equipment, conduct experiments, build arguments and explain concepts confidently and continue to ask questions and be curious about their surroundings.

Implementation

Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in science. Our whole school approach to the teaching and learning of science involves the following:

- Science will be taught in planned and arranged topics by the class teacher, to have a project-based approach. This is a strategy to enable the achievement of a greater depth of knowledge.
- Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers. Planning involves teachers creating engaging lessons, using resources to aid understanding of conceptual knowledge. Teachers use precise questioning in



class to test conceptual knowledge and skills and assess children regularly to identify those children with gaps in learning, so that all children keep up.

- We build upon the learning and skill development of the previous years. As the children's knowledge and understanding increases, and they become more proficient in selecting, using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence.

- Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in-keeping with the topics.

- Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning.

The needs of all children are met through the planning and delivery of this subject. This is carried out in a variety of ways, such as: differentiation through outcome/task, adult support, adapted tasks/materials and pre-teaching of skills and vocabulary if necessary.

Impact

The successful approach at Eastington results in a fun, engaging, high-quality science education, that provides children with the foundations for understanding the world. Our engagement with the local environment ensures that children learn through varied and first-hand experiences of the world around them. So much of science lends itself to outdoor learning and so we provide children with opportunities to experience this. Through various trips and interactions with visitors and experts, children have the understanding that science has changed our lives and that it is vital to the world's future prosperity. Children at Eastington overwhelmingly enjoy science and this results in motivated learners.