

## Science at Wyke Regis Primary Federation

### Intent Statement



We aim beyond the requirements of the National Curriculum for Science; providing a broad, balanced and differentiated curriculum; ensuring a progressive development of all scientific concepts, knowledge and skills. Science in our Federation provides children with the opportunity to understand the world around them and provides an exciting context to apply many of the other skills and disciplines they learn at school.

The science National Curriculum identifies three key areas in which the children should be taught: knowledge and understanding; working scientifically and the application of science. Our school has carefully designed and planned its science curriculum to ensure children, from reception to year 6, cover these three aims in an accessible, creative and engaging way giving our learners the opportunities to be curious, pose questions, seek answers and not just accept everyday phenomena. Children will have a clear understanding of how scientists both past and present have contributed to society's understanding of the world around them. They will understand the role that science and other STEM subjects play in solving some of the key problems facing the world, such as climate change.

We choose important threads that link the learning from the Foundation stage to the end of Year 6. In science, *those are collaboration, curiosity and questioning*. These are important for our learners because science is a collaborative subject which provides lots of opportunities for being curious and building questioning skills.

Through our Federation curriculum drivers, science will develop the children's creativity by giving them regular opportunities to investigate, observe and explore, build resilience by understanding the best science is learnt when the unexpected happens and our ideas are challenged. Children will understand that part of science is failing and that problem solving helps us to overcome these failures and builds our resilience. We will use the Science curriculum to raise their aspirations by trying things out, being daring, and asking further questions!

Being in Wyke offers our children the chance to be excited by science: it is linked to the real world through looking at the big things as well as the small that go on all around them, every day and giving children opportunities to pause, consider and reflect upon them. We believe that children learn science best by doing and seeing; by providing the children with a range of opportunities to actively carry out different types of scientific enquiries, we ensure that working scientifically and application of knowledge is embedded into the heart of our science curriculum.

We make our science learning inclusive to all learners by not putting a ceiling expectation on any child, getting all children to go through the ARE gateway together and providing support and challenge. Teachers' expectations are for children to explore their potential and aim for greatness! Our school endeavours to ensure that every child is given the opportunity to enjoy and make progress in science. In addition, the wider curriculum provides many opportunities to apply and deepen children's understanding of science.

To enrich the learning opportunities further in science, we plan to be adventurous and give more opportunities for the freedom to explore their own ideas. 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 endeavour to provide children with opportunities to experience this.

We want our learners to go forwards with an enquiring mind and wonder and marvel in all things scientific and use what they have learned and been inspired by in other areas of their lives.