



### **Science-Intent**

Our Intent is to provide our children with a Science curriculum which will stimulate and excite their natural curiosity as well as giving them a deeper understanding of the world we live in.

- We believe that all pupils should be taught essential aspects of the knowledge, methods, processes and uses of Science.
- Through building up a body of key foundational knowledge and concepts, pupils will be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.
- Children will be encouraged to understand how Science can be used to explain what is occurring, predict how things will behave, and analyse causes. They will be given opportunities to show this knowledge and understanding through practical investigations.

### **Science – Implementation**

Teachers create a positive attitude to science learning within their classrooms and the wider environment and reinforce an expectation that all children are capable of achieving high standards in science.

Through our planning, we include practical opportunities that allow children to find out for themselves. 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, often involving high-quality 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 achieve.

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. Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning and workshops with experts.

### **Science – Impact**

The successful approach at Inmans Primary School results in a fun, engaging, high-quality science curriculum, 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.

Through various workshops, trips and interactions with experts and local charities, children have the understanding that Science has changed our lives and that it is vital to the world's future prosperity.

Children learn the possibilities for careers in Science as a result of our community links and connection with national agencies such as the STEM association.

Pupil voice is used to further develop the Science curriculum, through questioning of pupil's views and attitudes to Science to support the children's enjoyment of science and to motivate learners.