



## Stoke Row School Curriculum Statement – Science

### **Intent**

At Stoke Row School we recognise the importance of Science in everyday life and in cross curricular learning.

We aim to increase pupils' knowledge and understanding of our world and to develop the vital life skills associated with Science such as, questioning, observing, identifying, classifying, recording, presenting and concluding in order to ensure their **Bright Futures**

We aim to prepare our pupils for life in an increasingly scientific and technological world and to develop their understanding of how major scientific ideas have played a key role in society.

### **Implementation**

Our curriculum provides a rich variety of topics that cover all the core scientific disciplines in contexts that children can relate to in their everyday lives. We aim to develop the key scientific skills through weekly high quality teaching that builds on understanding and knowledge as our children progress through the school.

We are passionate about cross curricular links and children are taught how their mathematical and calculation skills can be used to read analyse and draw conclusions from their scientific results. There are regular opportunities for children to develop their literacy through reading, writing and spelling key scientific vocabulary and science focused work within our literacy. We always look for relevant and absorbing links to our topic work and children are able to learn and revisit the importance of our world and how it should be treated in our PSHCE and RE study.

We make sure that science is a living, breathing, evolving subject by taking opportunities to engage in science visits to local and national scientific centres and by organising a bi-annual Science week to engage the children through a

range of practical and fun science based activities. We use our well stocked resources whenever we can to ensure that children of all learning preferences can get the most from our science work. Our KS1 children benefit from Forest School from a trained Forest School professional which has a huge impact on their appreciation and understanding of the world around them as they grow.

We try to flex to the individual child's learning style in order to underpin their learning and to ensure that they are able to shine in their own individual way.

### **Impact**

Our children will experience Science in a practical, fun and positive way enabling them to retain knowledge that is pertinent to Science in a real life context and will support them in their **Bright Futures**.

Children will reach age related expectation in Science and beyond and will be able to question ideas, reflect on knowledge and confidently explain their reasoning scientifically.

At Stoke Row we place great emphasis on the value of collaborative working and science is the perfect setting to develop these vital skills of co-operation and team work and to enable our children to show our school values through their developing understanding.

### **How do we help children to learn?**

At Stoke Row we take an individualised approach to learning and, particularly in Science, we endeavour to follow a child's own special interests.

We aim to provide a range of learning routes to cater to all learning styles and in particular, ensure that children have as much opportunity as possible, from the start of their learning journey, to experience science in a practical way and as an integral part of our whole curriculum.

We are focused on continuing to build on children's learning as they progress through our school and instil a sense of wonder and adventure around our science learning.

### **Characteristics of a scientist**

- High levels of originality, imagination or innovation in the application of skills
- The ability to think independently and raise questions about working scientifically.
- The ability to undertake practical work in a variety of contexts and confidence and competence whilst carrying out scientific investigations.
- A passion for science and its application.
- Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations, solving challenging problems and reporting scientific findings.

### **How are staff supported?**

Staff are supported via a clear and thorough curriculum plan which ensures progression across the school.

We are fortunate to have secured, through a generous anonymous donation, a range of brand new science resources, covering all the major topics which enhance all our planning and learning.

Staff have access to relevant training, as appropriate.

Information is continually cascaded with opportunities for professional questioning.

Books are regularly monitored with feedback to individual staff members.

### **Assessment**

Summative assessment against National Curriculum objectives and the development of scientific knowledge and skills.

Verbal assessment through observing and questioning

Marking books – written feedback and involving pupils in assessing their own work which helps them to increase their understanding of their own strengths and needs.

Reports at the end of the year.