

## **Science Curriculum Statement**

Science is a core National Curriculum subject that offers pupils the opportunity to explore and understand the physical world in which they live, to develop methodical approaches to problem solving and to develop early language skills.

### **Subject Content for 2020-2021**

- In Early Years pupils will study the following topics as part of knowledge and understanding of the world: All about me, Tell me a story, Bears, Out and About, Down on the Farm and Let's go on holiday
- In Key Stage Two students will study the following topics: Magical mixing, Changes of state, Floating and sinking, Animals in the wild, Farm animals and plants, and Changing seasons
- In Key Stage Three students will study the following topics: Living things and their habitats, Light and electricity, Properties and changes of materials, Animals including humans, Forces and Earth and Space.
- In Key Stage Four students the pupils will complete OCN Entry level Science units (where appropriate) and look at the following topics: Everyday materials, Earth and Space and Plants and Ecology

### **Aims (What are we trying to achieve?):**

- To develop understanding of the world through sensory exploration.
- To develop knowledge and understanding of scientific ideas, processes and skills and relate these to everyday experiences.
- To engage and motivate pupils' through an enjoyment of science.
- To prepare students for specific aspects of life that they will face as they develop, grow and need to make important life choices.
- To allow pupils to develop their social and communication skills by working collaboratively to investigate problems.
- To prepare students for life including an awareness of an increasingly scientific and technological world.
- Fostering concerns about, and appreciation of, our environment.
- To deliver sex and relationships education.

### **How is learning organised?**

- Pupils in Early years are taught by their class teacher and follow the EYFS framework.
- Pupils in KS2 and KS3 are also taught by their class teachers according to their individual needs and the curriculum followed is based on the National Curriculum for KS1 and KS2.
- Where possible a practical approach to learning is taken and students have their first real opportunity to explore scientific equipment and to develop their scientific enquiry skills.
- In KS4 Science pupils follow the curriculum based on the National Curriculum adapted to support them to gain a greater understanding of the world and where appropriate pupils will work towards achieving the OCN Entry level Science qualification and engage in STEM activities. This is delivered by a Science specialist.

### How well are we achieving our aims?

- Pupils appear to enjoy science and planning allows for opportunities for pupils to have a 'hands-on' learning experience and gives opportunities for sensory input. Resources have been focused on enrichment and developing pupils' investigative skills.
- Where possible Science is linked to real life examples and communication is encouraged and supported through the use of symbols and signing.
- SRE is delivered by teachers from KS2 and planning shared with the PSHE co-ordinator.