



## **St. Andrew's Science Policy**

### **Purpose of subject and objectives:**

At St. Andrew's, we encourage children to be inquisitive throughout their time at school and beyond. The Science curriculum 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. Throughout the programmes of study, the children will acquire and develop the key knowledge that has been identified within each unit and across each year group, as well as the application of scientific skills. We ensure that the Working Scientifically skills are built-on and developed throughout children's time at school so that they can apply their knowledge of science when; using equipment, conducting experiments, building arguments, explaining concepts, asking questions and being curious about their surroundings.

### **Our Aims in teaching Science:**

- Preparing our children for life in an increasingly scientific and technological world.
- Fostering concern about, and active care for, our environment.
- Helping our children acquire a growing understanding of scientific ideas.
- Helping develop and extend our children's scientific concept of their world.
- Developing our children's understanding of the international and collaborative nature of Science.

### **Teaching and Learning:**

Science is a core subject in the National Curriculum and is taught on a weekly basis from Reception to Y6. The programmes of study for each year group describe a sequence of knowledge and concepts. Children need to develop secure understanding of the knowledge and concepts in order to progress to the next stage. 'Working Scientifically' specifies the understanding of the nature, processes and methods of science for each year group.

### **Our teaching aims:**

- Teaching science in ways that are imaginative, purposeful, well managed and enjoyable.
- Giving clear and accurate teacher explanations and offering skilful questioning.
- Making links between science and other subjects.

### **Methods of teaching:**

At St. Andrew's Science is encouraged to be taught in a fun and engaging way with a practical approach, where possible. Teachers use a variety of interactive teaching methods to stimulate and

excite learners, to help them to engage in the world around them. All children will be involved in experiments and investigation, using a wide range of apparatus and equipment. Staff are encouraged to teach the recording of Science lessons in a variety of ways (for example posters, letters, Science fiction stories etc.) alongside the traditional formal methods.

#### **EYFS:**

Children in the Foundation Stage are taught science through the 'Understanding the World' aspect of the Early Years Foundation Stage (EYFS) Curriculum. The development of scientific thought is an important area of experience throughout the EYFS. Science is a broad and exciting subject especially for children who are naturally curious and have questioning minds. It is therefore important that a wide range of experiences are introduced to children in the early years so that they can begin to develop their scientific knowledge.

#### **Cross curricular learning:**

Teachers will seek to take advantage of opportunities to make cross-curricular links. They will plan for pupils to practise and apply the skills, knowledge and understanding acquired through Science lessons to other areas of the curriculum.

#### **Assessment:**

Children's progress is continually monitored throughout their time at St. Andrew's Primary School and is used to inform future teaching and learning. By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study as set out in the National Curriculum. Children receive effective feedback through teacher assessment, both orally and through written feedback, in line with the school's assessment policy.

#### **Monitoring and review:**

The Subject Leader should be responsible for improving the standards of teaching and learning in Science through:

- Monitoring and evaluating pupil progress and attainment.
- Monitoring the quality of the learning environments.
- Taking the lead in policy development.
- Auditing and supporting colleagues in their CPD.
- Purchasing and organising resources.
- Keeping up to date with changes in the subject and sharing this with staff, and governors when required.