**SCIENCE CURRICULUM STATEMENT**

**INTENT**

At Holy Trinity CE (A) Primary School, we want to prepare our children for life in an increasingly scientific world. We want our children to foster concern and care for our environment and help them develop a growing understanding of scientific ideas. Our curriculum has been designed to take account of the statutory requirements of the Early Years Foundation Stage Curriculum and the Primary National Curriculum as well as the individual needs of our learning community. Learning Challenges are based around Target Tracker statements. These ensure clear progression across the school and recognises understanding and procedural knowledge builds over time. As a result of this, we expect that all children leave our school having mastered a wide range of concepts and gained the knowledge that gives them a love of learning, prepares them for their next steps and develops an understanding of the world in which they live.

**IMPLEMENTATION**

The following principles convey how our curriculum is implemented:

* Teachers reinforce an expectation that all children are capable of achieving high standards in Science.
* The large majority of children progress through the curriculum content at the same pace. Adaptation for individuals ensures that all children are able to access the lesson content being taught. The grouping of pupils for practical activities will take account of their strengths and weaknesses and ensure that all take an active part in the task and grow in confidence.
* The following objectives derived from the above intent will form the basis of our decisions when planning a topic. Assessment will also be related to these objectives:
* to develop pupils’ enjoyment and interest in science and an appreciation of its contribution to all aspects of everyday life
* to develop a knowledge and appreciation of the contribution made by famous scientists to our knowledge of the world including scientists from different cultures
* to encourage pupils to relate their scientific studies to applications and effects within the real world
* develop a knowledge of the science contained within the programmes of study of the National Curriculum.
* To build on pupils’ curiosity and sense of awe of the natural world
* to develop in pupils a general sense of enquiry which encourages them to question and make suggestions
* to encourage pupils to predict the likely outcome of their investigations and practical activities.
* To use a planned range of investigations and practical activities to give pupils a greater understanding of the concepts and knowledge of science.
* to provide pupils with a range of specific investigations and practical work which gives them a worth-while experience to develop their understanding of science
* to develop progressively pupils’ ability to plan, carry out and evaluate simple scientific investigations and to appreciate the meaning of a ‘fair test’.
* To develop the ability to record results in an appropriate manner including the use of diagrams, graphs, tables and charts.
* to introduce pupils to the language and vocabulary of science
* to give pupils regular opportunities to use the scientific terms necessary to communicate ideas about science
* to develop pupils’ basic inquiry knowledge and their ability to make accurate and appropriate measurements
* within practical activities, give pupils opportunities to use a range of simple scientific measuring instruments such as thermometers and force meters and develop their ability in being able to read them.

**IMPACT**

Holy Trinity CE Primary has a supportive ethos and our investigative approach towards scientific enquiry supports the children in being able to work collaboratively, and independently. Group work encourages the children to support each other and develop their verbal and reasoning ability. Inclusive and ambitious teaching ensures that all children experience challenge and success in Science through developing a growth mindset.

Regular and ongoing assessment informs teaching to support and enable the success of each child. Teacher assessments are carried out continuously through observations during practical tasks, questioning and written work. Assessment in Year 1-6 is completed on Target Tracker which is used to inform teacher assessments for pupils working at the standard of the national curriculum at the end of year 6.

At Holy Trinity CE Primary, we would expect the impact of our Science curriculum to:

* demonstrate a love of science work and an interest in further study and work in this field
* retain knowledge that is pertinent to Science with a real life context.
* be able to question ideas and reflect on knowledge.
* be able to articulate their understanding of scientific concepts and be able to reason

scientifically using rich language linked to science.

* Demonstrate mathematical procedural knowledge through their work, organising, recording and interpreting results.
* work collaboratively and practically to investigate and experiment.
* achieve age related expectations in Science at the end of their cohort year.