



Great Wilbraham C of E Primary School

Policy title: Science

Date created: January 2019

Date ratified:

Next Review Date: September 2020

Signed:

Introduction

1.1. Vision

At GWPS science is at its most effective when it is: CREATIVELY taught and practical; when children are CONFIDENT to ask questions, try new approaches and learn from each other; we are CARING about the world around us and when TOGETHER we go on a journey of self-discovery.

1.2. Principles

- It is our aim that science lessons at GWPS involve:
- A practical and hands on approach
- An engaging, fun, memorable and creative attitude
- A child led curiosity and journey of self-discovery
- Explaining to and learning from each other
- Inspiration from the world around us
- Asking questions and trying new approaches

2. Leadership and management

2.1. Roles and responsibilities

Leadership

- To ensure the monitoring of science and the principles
- To promote science capital within the school

Staff

- To deliver the curriculum
- To teach according to the science principles

Governing Body

- To be aware of and involved in the monitoring of science

Parents

- To promote positive attitudes towards science

Children:

- To recognize that science is all around us
- To be curious and enthusiastic about science

2.2. Continuing professional development

Staff needs in CPD in relation to science may come through performance management, recognition of a whole school need or through the needs of individual pupils. Explorify, REACHout, internal and external providers are all examples of sources of excellent CPD.

2.3. Reviewing and monitoring

This policy will be renewed every three years in accordance with updates on science.

3. Teaching, learning and assessment

3.1. Teaching and learning philosophy and ethos

Science fosters a healthy curiosity in children about our universe and promotes respect for the living and non living. It allows children to develop original ideas and a questioning attitude. We believe Science encompasses the acquisition of knowledge, concepts, skills and positive attitudes.





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In Science, pupils are encouraged to be open-minded and to try and make sense of what they see and find out. The main focus of our approach will be through open-ended activities where we encourage children to recognize the need for fair testing and working scientifically to answer questions.

We follow a two year rolling programme for KS1 and KS2 covering the 2014 National Curriculum. In Foundation, the areas of learning and development are interconnected but especially in the 'Understanding the World' which is one of the specific areas.

Science is part of our topic cycle and although taught throughout the year, the whole school bases their topic work around science in the Spring term seeking opportunities to work collaboratively. We believe that Science can and should be taught in a cross curricular approach and has links to mathematical thinking, inspiring writing and clear links to design technology and computing.

3.2. Assessment

Assessment for learning is continuous throughout the planning, teaching and learning cycle. However children are more formally assessed using a variety of methods:

- Observing children at work, individually, in pairs, in a group, and in classes
- Next step marking, targets and learning objectives
- Questioning to elicit thoughts, check misconceptions and understanding through mini plenaries
- Talking and listening to children
- In Foundation, Science provides children with opportunities for: playing and exploring, active learning, creating and thinking critically. Purposeful play activities provide a vehicle for formative assessment.
- In KS1 and KS2 summative assessments are made using observations and the Rising Stars summative tests, with the use of Target Tracker to make observations and assessments of scientific enquiry skills

4. **Personal development, behaviour and welfare**

4.1. Social, Moral, Spiritual and Cultural (SMSC)

Children will:

- Work in groups and independently to solve problems and investigate questions
- Discuss scientific moral issues about the world around us
- Understand the development of science within our culture

4.2. Safeguarding

The safety of children is paramount in all situations. If a child's behaviour endangers the safety or learning of themselves or others the adult in charge will cease the activity. A senior member of staff will be called if the child needs to be removed.

4.3. Health and safety

At all times a safe and healthy environment is maintained. Any hazards and concerns are reported to the Headteacher or the Office. Risk assessments are undertaken to ensure there is a safe working environment. Great Wilbraham CE Primary School is committed to safeguarding and promoting the welfare of all children.

All teachers will be conversant with the "Be Safe" safety booklet. This should be read in conjunction with Code of Practice L222 July 2007. Where appropriate reminders will be given to children about potential hazards and care of the equipment they are using.

TOGETHER we are CARING, CONFIDENT and CREATIVE learners





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Any educational visits will be planned with due regard to the school and appropriate approval of the governing body. All staff should be conversant with Code of Practice L222 for safe handling of materials in Science. Practical activities, events off site in the local area, out of classroom activities in the school grounds should all be risk assessed by the class teacher.

5. Outcomes for pupils

5.1. Inclusion and equal opportunities

Our whole school philosophy totally encompasses the equality of access and opportunity and we are committed to providing all children with an equal entitlement to scientific activities and opportunities regardless of race, gender, culture or class as stated under the Equality Act October 2010.

Curriculum planning, teaching and learning and the behaviour strategies take into account pupil's age, aptitude, gender, ethnicity and special educational needs. The learning environment enables every pupil to fulfil their potential. The contribution all pupils make is acknowledged and valued. Pupils with emotional and/or physical needs who need individualised programmes with personal achievable targets and rewards are catered for and fully supported.

5.2. Christian ethos and British values

British values are celebrated throughout the school including scientific discoveries and development of science contributions around the world and in this country.

5.3. Community links

We aim to involve parents, governors and members of the scientific community in our school, actively seeking opportunities to develop the science capital of children in our school and promote science in the word around us.

5.4. Progress from EYFS to Y6

At the end of Reception year Knowledge and Understanding of the World is reported as part of the Development Matters curriculum. At the end of KS1 and KS2 it is statutory for the school to report standards in science. Children's progress is continually monitored and tracked throughout their time at Great Wilbraham C of E Primary and reported to parents at the end of every year.

6. Links to other policies

- 6.1. Assessment
- 6.2. Computing
- 6.3. Health and safety
- 6.4. Marking and feedback

7. Appendices

