Curriculum Policy Document
Document Name: Science Policy
First Written Date: March 2019
Review Date: N/A
Reviewed By: All Staff
Ratified By Full Governors Date:
Next Review Date: June 23
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Rationale

Vision

We want children to be inquisitive and to gain scientific knowledge that will prepare them for the next stage of their education.

Science at Bramhope Primary School is about developing our children's knowledge and understanding of the world in which we live. We aim to develop their curiosity through first hand experiences, investigations and questioning. At Bramhope, we have **5 core principles** thatour science teaching and learning revolve around:

- is hands on, practical and investigative
- promotes our curiosity
- encourages us to ask and answer questions
- develops our scientific knowledge and vocabulary
- creates scientists of the future

Bramhope was awarded the PSQM (Primary Science Quality Mark) award in September2018. This will be completed again in 2021-2022.

Organisation of Content

In EYFS, we use the Early Years Framework. Children are introduced to science through looking at their understanding of the world around them and are taught to be curious and askquestions.

In KS1 and 2 we use the National Curriculum (2014) to ensure that children are taught the required content. We have a 2-year rolling program to allow for the mixed age classes,which ensures progression in all areas. From September 2021, we will move to a single year program, initially in Year 1, as the school expands.

The national curriculum for science aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplinesof biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

View Science Curriculum here

View Long Term Curriculum Overview for KS1 with National Curriculum Objectives here

View Long Term Curriculum Overview for KS2 with National Curriculum Objectives here

Assessment of content

Assessment is ongoing and takes place formatively during lessons. Teachers use a range of activities (including questioning, mind maps, concept cartoons) to identify whether children have met the expected standard. Teachers use an assessment grid to show that children have achieved each objective. The assessment grids allow teachers to have a clear understanding of which children are working at and towards the expected standard. This is then used for end of key stage judgements and to adapt planning if needed. We use SnapScience resources to ensure that we are „closing the gap" of those pupils not meeting the expected standard.

Accountability

The science subject leaders (Mrs Lawson and Mrs Hurst) are responsible for the coordination, planning and monitoring of the science curriculum. The subject leader monitors planning from all key stages to ensure progression in each area. Monitoring visits are used to ensure teaching is consistent and that the core principles and working scientifically objectives are being used. The subject leader supports colleagues in their teaching, by keeping them informed about current developments, providingongoing CPD to develop teacher's subject knowledge and ensuring all classes are using the most up to date resources. Teaching and learning is also monitored through lesson observations.

Teaching strategies employed

Science is taught in a variety of ways.

These mayinclude:

- practical situations and firsthand experiences
- educational visits and visitors
- Using the school grounds and wildlife garden
- Using ICT
- Using secondary sources to develop knowledge and understanding

The school is a member of the ASE and we use this for planning and assessment.

Provision for all children

Teachers plan lessons that are inclusive and adapt resources appropriately to ensure that all children can access the curriculum. There is no greater depth expectation in science, howeverteachers ensure that through a range of methods they are developing all children's scientific knowledge and challenging all pupils. We hold an annual 'Science Day' which takes place during British Science Week.

Inclusion

We have carefully considered and analysed the impact of this policy on equality and the possible implications for pupils with protected characteristics, as part of our commitment tomeet the Public Sector Equality Duty (PSED) requirement to have due regard to the need toeliminate discrimination, advance equality of opportunity and foster good relations.
All teachers, when planning, ensure that the activities they are completing are accessible to all.

Health and Safety

The school follows the guidelines of the "Be Safe" booklet for all general health and safety issues connected to science. In addition, staff should refer to the Health & Safety policy. Duringtheir time here, pupils are taught the importance of safe handling of tools and equipment and encouraged to assess and minimise risks with increasing independence.