

Brunswick Park Primary and Nursery School SCIENCE Curriculum Implementation

Wellbeing

We believe fostering positive mental health and wellbeing is the foundation for all learning and growth. Our curriculum, including the 'hidden curriculum' of school culture, supports all pupils to develop a positive self-image and equips them with the knowledge and skills they need to look after their mental and physical health.

Respectful

Friendly

Determined

Kind

Courageous

Tolerant

Planning

Teaching

Assessment

**Review and
Development**

**Inclusion and
diversity**

**Cultural Capital
and Partnership**

Knowledge organisers and progression documents for each year group from Nursery to Year 6 set out the key knowledge that children should learn for each unit of Science.

The Science curriculum map sets out when units are covered in each year group.

A skills progression document sets out the key 'working scientifically' skills to be taught in EYFS, KS1, lower KS2 and Upper KS2.

Teachers use the Project on a Page document, skills progression documents and Developing Experts as a springboard for planning each unit ensuring full coverage of the National Curriculum.

Science is taught in an active and practical way, with regular opportunities for pupils to conduct scientific enquiries.

We explicitly teach new vocabulary which is modelled and visibly displayed, and expect children to use this accurately. Vocabulary is set out in the unit glossaries.

We use skilful questioning to promote deeper thinking and check and secure understanding.

We provide all pupils with regular opportunities to work collaboratively, taking on different roles within the enquiry process.

We assess children's prior knowledge before beginning the teaching of each unit to ensure that lessons are ambitious and supportive for all children. Children record their prior knowledge and questions on the agreed pre-assessment format.

Teachers collect assessment evidence in a variety of ways including through observation, discussion, video, photos and written outcomes. Year 1-6 will answer assessment questions which are found on the Projects on a Page at the end of each unit to demonstrate their understanding of the key knowledge and vocabulary taught in each unit.

Feedback is in line with our school feedback policy which places an emphasis on high quality verbal, in the moment, feedback.

A range of questioning and feedback strategies are used to ensure that gaps in learning are identified and addressed.

The Science Subject Leader completes the following activities to ensure that Science is implemented in line with our agreed approach and that pupils are achieving well in this subject:

- Book Looks
- Subject Leader Surgeries
- Staff training
- Shared planning
- Learning Walks and lesson observations.
- Team or modelled teaching

The Subject Leader attends Barnet Science Network meetings for Subject Leaders and specialist training as available to ensure she has expert and up to date knowledge of best practice.

All children are challenged because we use questioning to deepen their understanding, and support children to make links and apply what they have learnt in different contexts.

All children are supported through scaffolding, additional support with vocabulary, our practical 'hands on' approach and through children being given the opportunity to demonstrate their learning in ways other than writing where literacy skills are a barrier.

Our Science curriculum gives children the opportunity to learn about both modern-day scientists and scientists from the past. The scientists studied have been carefully chosen to reflect the diversity of our community to support children to see themselves as scientists and to challenge stereotypes.

Trips, visits, in-person workshops and online workshops are used to support learning.

'Developing Experts' is used to give children access to expert knowledge within lessons and to broaden children's experience of careers linked to Science.

We participate in national and local science events and days of scientific significance

Parents who work in careers linked to Science are welcomed in as 'experts to share their knowledge and experiences.