

Assessment

Staff assess subject knowledge and understanding at the end of each unit. They also identify which scientific enquiry skills have been covered and make judgements against them. Regular monitoring is used by the Science lead.

Visits and visitors

Year 5 children are visited by a planetarium to enhance the 'Earth and Space' unit during the Autumn term. In the Summer Term, as part of the 'Animals including Humans' unit, they incubate eggs, observing the life cycle process in real time.

Monitoring

Science monitoring of books, planning and floor books are carried out by the subject leader with feedback given to improve outcomes, help shape the curriculum and delivery as well as support professional development of staff. Through the pupil voice, children are given the opportunity to provide feedback about teaching and learning to move the curriculum forward.

Cross curricular links with Science:

- Whole school 'Health Week' takes place which includes the importance of healthy eating and exercise. The environmental impact of 'food miles' are discussed and small changes are encouraged.
- Child explore the school and local environment to carry out studies.
- Opportunities to apply writing skills, where children write at length to share their scientific understanding.
- Children use their mathematical skills when using equipment, recording and measuring.
- School visits provide the children with practical and 'real life' experiences i.e. River study and Zoo visit.



Science at Uplands



What does it look like?

At Uplands, we encourage children to be inquisitive throughout their time at our school and beyond in the wider world. The Science curriculum promotes a healthy curiosity in all children about our universe and encourages respect for the living and non-living things. This is in line with our 'Respect for All' school motto. At Uplands, we believe science encompasses the acquisition of knowledge, concepts, skills and positive attitudes. Throughout the programme of study, the children will acquire and develop the key knowledge that has been identified within each unit at Key Stage 2, as well as the application of scientific skills.

Science Week

Lessons are linked to the British Science Week theme. Children across the school complete a project linked to learning which is celebrated with families at a Science Fair.

Science Ninjas

'Science Ninjas' encourages and promotes the teaching of practical science and the development of enquiry skills. During practical Science lessons, children are rewarded for demonstrating one of four key practical enquiry skills: **observing**, **equipment**, **measuring** and **recording** and receive a sticker when they successfully demonstrate that skill during the lesson. The aim of this scheme is to raise the profile of practical science in the school.



Floor books

We use floor books to record the children's independent and collaborative learning. They are used by staff to demonstrate the learning carried out through practical science skills so that our children have the freedom to express their understanding orally.

STEM

Science and Design and Technology work closely at Uplands to provide the children with STEM experiences. The Rotary Club provide our Year 5 children with a 'build a bridge' challenge. Year 4 visit 'Enginuity' where building vehicles provide them with chances to apply their knowledge of forces learnt in Year 3 when designing battery operated vehicles as part of their 'Electricity' unit.

Additional funding

Sources are sought by the Science Champion to enhance the resources and experiences of the children. Recent received grants – Edina Trust and National Science Week Grant.