

- **Intent:** your curriculum plan, including its design, structure and sequence
- **Implementation:** how you teach and assess your intended curriculum
- **Impact:** the outcomes for your pupils as a result of the education they've received

Why do we teach it?

Science at Helen Allison school is designed to enable students to understand the world around them, Students are taught through multi-sensory experiences and are provided with enrichment opportunities to help them access the topics set by the National Curriculum. By offering learning experiences both in the environment and out in the local community, students are able to develop life skills through real world experiences.

INTENT - What we are teaching

Our principles for the teaching and learning of science are:

- To provide an individualised and engaging Science curriculum which enables students to explore, discover and question the world around them.
- To teach Science in an environment that matches individual learning needs, where students will have their thinking challenged to help them become the best scientists they can be.
- By developing the skills needed to carry out investigations, students will establish a 'can do' approach which enables them to work with increased independence and articulate their discoveries.
- To inspire students to develop a lifelong curiosity of science, and to make connections between scientific ideas in the classroom and the real world.

IMPLEMENTATION - How we teach it

Students are taught and encouraged to:

- Try before they ask for help and challenge themselves to make progress.
- Learn about real life experiences and explore Science outside.
- Link Science to other subjects and revisit, reflect and evaluate their learning.
- Build on what they already know and learn from their mistakes.
- Ask questions, investigate the answers and engage in practical lessons.

IMPACT - What is working

The successful approach to teaching science results in a fun, engaging, high-quality science education. Students are shown to be making good progress due to adaptive teaching, multi-sensory experiences and motivating lessons. Students are assessed against the National Curriculum targets, where appropriate for their ability and attainment.

Subject Leader Actions and Impact

| Previous Improvement Actions and Impact | Current Improvement Actions | Future Improvement Actions |
|---|--|--|
| <p>The Science vision is now evident and on the school website and in all books ensuring continuity across the school, feeding into the school values.</p> <p>Science Leadership meet regularly with SLT, enabling SLT to be aware of what is happening in science across the school.</p> <p>Students are offered opportunities to talk about Science through Pupil Voice sheets and in the school council, resulting in students seeing themselves as scientists and increased engagement and progression.</p> <p>We bought the programme Developing Experts and this is followed across the school.</p> <p>Pupil progress sheets are embedded and teacher assessment is made against the National Curriculum learning objectives.</p> | <p>Working towards the Primary Science Quality Mark Award.</p> <p>Children across the school using the full range of enquiry types to answer scientific questions, resulting in increased coverage and more effective learning.</p> <p>Introducing a range of new teaching strategies in science therefore increasing teacher motivation and confidence, as well as increased engagement, progression and continuity.</p> <p>Teachers regularly using a range of assessment strategies to inform learning in science, enabling them to be more aware of where their students are at and more individual lessons being planned.</p> | <p>Students across the school being taught science outdoors to improve student motivation and engagement, as well as teacher confidence.</p> <p>All children engage in activities to develop their science capital to enable students to see science in everyday life and to see themselves as scientists.</p> <p>Literacy and numeracy strategies are embedded into science lessons to enable students to develop transferable skills.</p> <p>Staff CPD and monitoring to maintain fidelity to ensure sustainability.</p> |