

Science @ Greetland



The Greetland Academy Science curriculum inspires a curiosity in children that develops a sense of excitement and wonder about the everyday world. It focuses on the three fundamental strands of Biology, Chemistry and Physics, encouraging children to understand how Science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Working scientifically is essential. These skills are embedded throughout each unit so that in addition to the core knowledge and vocabulary, children develop skills of observation, investigation, fair testing, classification and data handling. In addition to this, during our final half term of the year, each class embarks on a 'Making Connections' unit of work to further consolidate the working scientifically skills and knowledge taught throughout the year.

At the Greetland Academy, every Science unit is framed around an overarching enquiry question and echoes the structure of the National Curriculum programmes of study for each year group. The planning of each year group and unit is supported by the Science Greetland Curriculum documents and Kapow scheme. These explicitly set out progressive learning objectives, enquiry questions, key vocabulary, working scientifically skills and expectations. The structure is a spiral curriculum, with essential knowledge and skills revisited with increasing complexity, allowing pupils to revise and build on their previous learning. This enables children to broaden their scientific knowledge, whilst at the same time developing their enquiry skills, with increasing depth and challenge, as children move through the year groups.

Lessons incorporate various teaching strategies, from independent tasks to paired and group work, including practical, creative, computer-based and collaborative tasks. Lessons are carefully adapted for those with additional needs, to ensure that every pupil can access the curriculum. There is also the opportunity to regularly review and evaluate children's understanding. Half-termly, the teacher will assess each child against the objectives. To support teachers in making their overall judgement, each unit has supporting statements with the key learning children should have demonstrated and achieved by the end of the unit.

As a school, we have been awarded the PSQM Gilt. This has been awarded to us by local experts to recognise our commitment to excellence in Science teaching and learning.

