

As one of the core subjects taught in schools, at Kidgate Academy, we give the teaching and learning of science the prominence it requires. A high-quality science education provides the toolkit and foundations for understanding the world through the specific disciplines of biology, chemistry and physics.



Intent – What do we aim to deliver?

To encourage an understanding of the world's natural phenomena, by teaching methods of enquiry and investigation to stimulate children's natural curiosity into why things happen the way they do.

Children to have an understanding of a wide range of scientific enquiry across the specific disciplines of biology, chemistry and physics.

To foster a healthy curiosity in children about our universe, promoting respect for the living and non-living through the acquisition of knowledge, concepts, skills and positive attitudes.

For children to develop specific scientific vocabulary which they use effectively to articulate and justify their findings/reasons when answering questions about the world around them.

Our children have probably never been as immersed in the activities and consequences of science as any generations before, from global warming, plastics in the oceans, missions to other planets and threats of pandemics. Our aim is to nurture a willingness for children to confidently enter the pipeline of future scientists, potentially assuring the very fragile nature of human's existence on this planet continues for generations to come.



Impact – How will we know when we have delivered it?

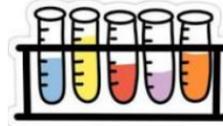
Children will be more equipped with the scientific knowledge required to understand the uses and implications of science, today and in their future years.

Children demonstrate respect and show a positive understanding for the world around them.

Children's scientific vocabulary will develop as they progress through school; and be concise in a range of aspects across the specific disciplines of biology, chemistry and physics.

Children will be able to answer age-appropriate scientific questions about the world around them, with an ability to call upon different types of science enquiry.

Science lessons are taught discretely across all year groups, once per week in a double session, to deepen learning across the subject as a whole. This will ensure the children develop a secure understanding of each key block of knowledge and concepts in order to progress to the next stage of their learning.



Implementation - How do we aim to deliver it?

Science is taught across the school – covering year group specific content. Through the use of Kapow Primary Science and Explorify, the children cover the specific disciplines at set points throughout the year. Children are provided with opportunities to deepen their understanding of the specific sub-strands within Biology, Chemistry and Physics.

Working Scientifically skills are embedded into lessons to ensure they are being developed throughout the children's school career. New vocabulary and challenging concepts are introduced using science knowledge organisers and direct teaching. This is developed through the years, in-keeping with the long-term plans, following the cycles.

We ensure assessments are completed using specific questioning linked to prior learning. This allows us to deepen the children's understanding, building upon the knowledge and skill development they already have. As the children's knowledge and understanding increases, and they become more proficient in selecting, using scientific equipment, collating and interpreting results, they will become increasingly confident in their growing ability to come to conclusions based on real evidence.