SCIENCE

INTENT STATEMENT

How pupils become Scientists across the Federation...

"The important thing is to never stop questioning."
~Albert Einstein

KNOWLEDGE

Pupils will be encouraged to develop curiosity about science and to think critically, enabling them to understand the implications of science today and in the future. They will be empowered to ask scientific questions about the world around them - finding answers through problem solving, evaluating, reasoning and reflecting.

PRACTICAL

Pupils will be fully engaged with the practical element of science and will be encouraged to enquire independently and collaboratively in hands-on investigations. They will be able to explain what is occurring, predict how things will behave and analyse causes. Pupils must have opportunities to: observe over time; seek patterns; identify, classify and group; carry out comparative and fair tests; and research using secondary sources.

EMOTIONAL

Pupils will develop a sense of excitement and curiosity, making a connection to the world by observing phenomena and looking closely at the natural and humanly-constructed world around them. They will develop an understanding of how science has changed our lives and how it is vital to the world's future prosperity. Pupils will be inspired by visits from 'real life' scientists, army engineers, links to secondary schools and trips during our annual STEM week.

INTELLECTUAL

Pupils will develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. Through a purposefully planned progression of skills and knowledge, building on and extending their prior learning, pupils will develop secure understanding of each key block of knowledge and concepts in order to progress to the next stage in their learning.