Science Curriculum

"The important thing is to never stop questioning."

~Albert Einstein

Purpose of Study:

 **Philosophical**	Children will be encouraged to develop curiosity about science and 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**	Children will be fully engaged with the practical element of science and are encouraged to enquire independently and collaboratively in hand-on investigations. They will be able to explain what is occurring, predict how things will behave and analyse causes. Children 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**	Children will develop a sense of excitement and curiosity through 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.
 **Intellectual**	Children 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, children will develop secure understanding of each key block of knowledge and concepts in order to progress to the next stage in their learning.