

Science

“you cannot change the world if you do not first know the world”

Science provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. It has changed our lives and is vital to the world’s future prosperity. Through building up a body of key foundational knowledge and concepts, pupils are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They learn how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Aims

All pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Year 7	Science Safety Particles Energy Cells	Cells Mixtures Forces	Atoms, Elements and Compounds Forces	Atoms, Elements and Compounds Reactions Movement Electricity	Reactions Reproduction Electricity Sound	Sound Reproduction
Year 8	Acid and Alkalis Breathing and Respiration Motion	Breathing and Respiration Motion Reactivity Health Electromagnetic Waves	Electromagnetic Waves Health Materials	Electromagnetic Waves (continued) Materials Plants and Photosynthesis Earth and Atmosphere	Plants and Photosynthesis Earth and Atmosphere Ecosystems Space	Space Ecosystems Earth and Atmosphere
Year 9	Cell Biology Atomic Structure and Periodic Table Energy	Cell Biology Atomic Structure and Periodic Table Energy	Cell Biology Atomic Structure and Periodic Table Energy Quantitative Chemistry P5a Forces	Quantitative Chemistry Forces Organisation	Quantitative Chemistry Forces Organisation	Quantitative Chemistry Forces Organisation Chemical Analysis Ecology