

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	Equipment and Enquiry Particles Energy, Mixtures	Cells Forces	Atoms, Elements and Compounds Forces	Reactions Movement Electricity	Reproduction Sound	Nutrition Acids and Alkalies
Year 8	Atoms, Elements and Compounds Forces Nutrition	Nutrition (continued) Reactions Mechanics	Breathing and Respiration Mechanics (continued)	Electricity Health Materials	Plants and Photosynthesis Waves	Waves (continued) Force Fields
Year 9	Atomic Structure and Periodic Table Cell Biology	Atomic Structure and Periodic Table Cell Biology	Energy Quantitative Chemistry Organisation	Energy Quantitative Chemistry Organisation	Forces Chemical Analysis Ecology	Forces Chemical Analysis Ecology