



# KS4 Science

	Content
<b>Year 10 HT1</b>	This term students will consolidate and further their understanding of the key scientific principles in Biology, Chemistry and Physics to include: Forces and motion, energy transfers and stores, cells, enzymes, cell division, stem cells, specialised cells, the theory of evolution, structure of the atom and the periodic table, chemical bonding.
<b>Year 10 HT2</b>	This half term students will study: Inheritance, Health and disease, structure and bonding, acids and alkalis, Waves.
<b>Year 10 HT3</b>	This half term students will study the following : The electromagnetic spectrum and chemical calculations. They will also complete summative assessments.
<b>Year 10 HT4</b>	This half term students will study: Work and Power and they will also review and recap the knowledge from the course so far, using the summative assessments to identify topics to review.
<b>Year 10 HT5</b>	This half term students will study selection from : Electric circuits, Electrolysis, Photosynthesis (topics to be completed next half term).
<b>Year 10 HT6</b>	This half term students will complete the topics not studied in half term 6 . They will also complete summative assessments and bespoke work following these to address any gaps in knowledge and understanding.
<b>Year 11 HT1</b>	During this half term students will be learning about the following: Photosynthesis, Hormones, Respiration, chemical calculations, Electrolysis.
<b>Year 11 HT2</b>	During this half term students will be learning about the following: Extracting and using metals, Haber process, Groups in the periodic table, rates of reaction, work and power, forces doing work.
<b>Year 11 HT3</b>	During this half term students will be learning about the following: Electric circuits, magnetism, electromagnetic induction, Ecology.
<b>Year 11 HT4</b>	During this half term students will be learning about the following: Exo and endo thermic reactions, Kinetic theory, specific heat capacity, specific latent heat.
<b>Year 11 HT5</b>	During this half term students will be learning about the following: Fuels, Earth and Atmosphere, Hooke's law.
<b>Year 11 HT6</b>	