

SCIENCE Curriculum Overview 25-26

Year group	8
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Rationale for sequencing	The flow of lessons aims to provide a coherent science curriculum that recognises the different strands of science such as Biology and Physics but ensures that students see science as a whole subject and that one element of one topic can also be a part of another. Using their knowledge and understanding, and use of the scientific method in practical work, students will be able to build up a large picture that explains everyday phenomena. Students should gain a strong understanding of fundamental scientific concepts that will take them to GCSE and further.
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Term 1	
Half term 1	Half term 2
Nutrition Balanced diet Digestion Digestive Enzymes Respiration Aerobic Respiration Anaerobic Respiration Biotechnology Humans as organisms Respiratory system Heart, pulse and blood pressure Exercise Investigation Senses and reflexes Reflex Investigation Innate and learned behaviour Drugs, alcohol and smoking	Chemical equations Conservation of mass Balancing chemical equations Heat transfers Conduction Convection Radiation Heat insulators Investigate cooling of coloured cans Disease Pathogens and transmission Prevention and treatment White blood cells and Human Defences Vaccination
Term 2	
Half term 1	Half term 2
Science Investigation How Science works skills Electricity and magnetism Static electricity Conductors and insulators Current in series and parallel circuits Potential difference in series and parallel circuits Resistance in series and parallel circuits Magnets and electromagnets	Forces and speed Forces causing motion and support Laws of motion Terminal velocity Speed and acceleration Plants as Organisms Photosynthesis Leaf adaptations Testing a leaf for Starch Plant minerals

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Term 3	
Half term 1	Half Term 2
Inheritance Inherited and environmental characteristics Discontinuous and Continuous Variation Sex determination and inheritance Cloning Selective breeding Discovery of DNA Modern Materials Ceramics Polymers Composites Concrete HSW	Rocks Structure of the Earth Rock types Rock cycle Weathering Earth's atmosphere Global Warming and Climate Change More chemical reactions Combustion Review Corrosion Types of chemical reaction Oxidation and Reduction Exothermic and Endothermic Displacement reactions and reactivity Carbon cycle

Key Assessment Plans:	
Term 1	End of topic tests, short 'Badger' assessments on key ideas and understanding
Term 2	1 longer test on multiple topics, end of topic tests, short 'Badger' assessments on key ideas and understanding
Term 3	End of year on any part of Y7 content, end of topic tests, short 'Badger' assessments on key ideas and understanding