



Topics are taught on a rotation basis; each class will cover all of the content below but may be studying it at different points in the year.

Throughout the year the following topics are covered						
7	Topic: B1 Cells Microscopes Cell Structure Animal & Plant cells Diffusion Specialised Cells Topic: P1 Energy Fuels & Energy Stores Energy Stores & Transfers Power Energy Resources	Topic: C1 Particles Simple Particle Model Properties of Different States of Matter Changes of State Gas Pressure Topic: C2 Atoms, Elements & Compounds The Atomic Model Symbols & Formulae Elements & Compounds	Topic: P2 Speed Speed Distance-time Graphs Relative Motion Topic: B2 Skeletal & Muscular Systems & Organisation The Skeleton Biomechanics Principles of Organisation	Topic: C3 Pure & Impure Substances Diffusion Pure & Impure Separation Topic: B3 Nutrition & Digestion Testing food for nutrients Healthy and unhealthy diets Bacteria and enzymes in digestion Drugs ,alcohol and smoking	Topic: P3 Forces Basic Forces & Diagrams Naming & Categorising Forces Stretching & Squashing Forces Hooke's Law & Work Done Moments & Simple Machines Balanced Forces Forces & Motion	Constant topic throughout the year: Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data
8	Topic: B4 Gas Exchange Systems Ventilation Gas Exchange Exercise. Asthma & Smoking Topic: P4 Pressure in Fluids Pressure in Liquids Atmospheric Pressure Pressure Calculations	Topic: C4 Chemical Reactions Reactions, Conventions & Signs a Reaction has Occurred Combustion, Thermal Decomposition, Oxidation & Displacement Conservation of Mass Acids, Alkalis & pH Reactions of Acids with Metals & Alkalis Topic: C5 Energy Changes Changes of State Endothermic & Exothermic Reactions	Topic: P5 Sound Types of Waves Sound Waves Microphones & Ultrasound Topic: B5 Reproduction Sexual Reproduction & the Reproductive Organs Fertilisation Fetal Development The Menstrual Cycle Plant Reproduction	Topic: P6 Light Light & Ray Models Interactions of Light Waves with Materials Mirrors, Pinhole Cameras & the Eye Detecting Light & Colour	Topic: C6 The Periodic Table Properties of Metals & Non-Metals Groups, Periods, Metals & Non-Metals Topic: C7 Materials Metal Reactivity Metal Extraction with Carbon Ceramics, Polymers & Composites	Constant topic throughout the year: Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data Topic: P7 Electricity in Circuits Conductors & Insulators Circuits, Current, Potential Difference & Resistance Series & Parallel Circuits
9	Topic: B6 Photosynthesis Photosynthesis Leaf Structure Topic: B7 Respiration Aerobic Respiration Anaerobic Respiration Topic: C6 The Periodic Table Properties of Metals & Non-Metals Groups, Periods, Metals & Non-Metals	Topic: P1 Energy Fuels & Energy Stores Energy Stores & Transfers Power Energy Resources Topic: C7 Materials Metal Reactivity Metal Extraction with Carbon Ceramics, Polymers & Composites	Topic: P8 Static Electricity Static Charges Electric Fields Topic: P9 Magnets Magnets & Magnetic Fields Earth's Magnetism Electromagnets & Motors Topic: C8 The Earth and its atmosphere Composition and structure of the Earth The rock cycle Composition of the atmosphere The carbon cycle Recycling	Topic: B9 Inheritance DNA and Chromosomes Variation Competition & Natural Selection Biodiversity Topic: P10 The Particle Model (Physics) Particle Motion & Density Energy in Matter Topic: P11 Space Stars, Planets & Galaxies The Seasons Weight	Topic: GCSE Biology Unit 1 Topic: GCSE Chemistry Unit 1 Topic: GCSE Physics Unit 1 Topic: GCSE Biology Unit 2 Topic: GCSE Chemistry Unit 2 Topic: GCSE Physics Unit 2	Constant topic throughout the year: Working scientifically Asking scientific question Planning investigations Recording, analysing and evaluating data End of key stage assessment

