

Science Curriculum Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	The human body The structure and functions of body systems Cells, tissues organs and systems Muscles and bones	Particles and Properties of Materials Solids Liquids and gases, diffusion and air pressure Atoms, elements and molecules	Floating and sinking Density and Forces Friction and pressure Sound, making and moving sounds	Current Electricity Chemical reactions and energy Renewable energy - the advantages and disadvantages	Sexual Reproduction in animals Interdependence Ecosystems Endangered animals	Forces Structure of the earth natural disasters
Year 8	Food and Nutrition Digestion & Transportation Plants and their reproduction	Breathing and anaerobic and aerobic respiration Finding a pulse Unicellular organisms Parts of a bacterial cell Carbon cycle	Combustion, burning and reactions Fire safety Pollution & global warming The periodic table- atoms, elements and chemical substances	Materials in the Earth Metals and their uses Properties & reactions of metals Igneous and metamorphic rocks Weathering & erosion	Properties of solids, liquids and gases Fluids -floating & sinking, pressure & drag Light The travel of light, reflection and refraction Coloured light	Energy transfer & control Earth and space Solar system and seasons Magnetic Earth and Gravity
Year 9	Cells Basic cell structure, specialised cells Genetics Nerves Inheritance, modification, evolution Disease Using microscope Measuring & drawing graphs	Prevention and medicines Drug development Health Atomic Structure Elements and compounds The periodic table	Ionic bonding Covalent bonding Metallic bonding States of matter Separating and purifying substances Breaking down ionic compounds Assessing risk Investigations	Acids Hazard symbols Metals Motion Forces and their formulas Separating mixtures Measuring and testing for pH, H ₂ and Co ₂	Energy Waves Electromagnetic spectrum Atoms Radiation	Introduction to GCSE
Year 10 IGCSE Combined Science	Biology Characterisitcs of living organisms Cells Movement into and out of cells Biological molecules Enzymes	Chemistry States of matter Atoms, elements and compounds Stiochiometry Electrochemistry	Physics Motion Forces Energy	Biology Plant nutrition Human nutrition Transport in plants Transport in animals Diseases and immunity	Chemistry Chemical energetics Chemical reactions Acids, bases and salts The Periodic Table	Physics Thermal physics Waves
Year 11 Science IGCSE Combined Science	Biology Gas exchange in humans Respiration Drugs Reproduction Organisms and their environment Human influences on ecosystem	Chemistry Metals Chemistry of the environment Organic chemistry Experimental techniques and chemical analysis	Physics Electricity Space physics	Revision Exam preparation Exam technique Question types	Revision Exam preparation Exam technique Question types	Revision Exam preparation Exam technique Question types