

KS3 – KS4 Science Spiral Curriculum 2021/22

Year Group		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
7 Exploring Science Inquiry based	Key Stage 3 Science Curriculum	Biology	Biology	Chemistry	Chemistry	Physics	Physics	End of Year KS3 Science Exam	
		Science Baseline Exam 7A Plant and Animal Cells 7B Reproduction in Animals 7A/7B/7C/7D Revision + Test	7C Muscles and Bones 7D Ecosystems & Variation 7A/7B/7C/7D Revision + Test	7E Mixtures and Separation 7F Acids and Alkalis 7E/7F/7G/7H Revision + Test	7G The Particle Model 7H Atoms, Elements and Molecules 7E/7F/7G/7H Revision + Test	7I Energy 7J Current Electricity	7K Forces 7L Sound 7I/7J/7K/7L Revision + Test		
		Year 7 Assessments	Biology Exam		Chemistry Exam		Physics Exam		
8 Exploring Science Inquiry based		Science Baseline Exam	Biology	Chemistry	Chemistry	Physics	Physics	End of Year KS3 Science Exam	
		Science Baseline Exam 8A Food and Digestion 8B Plant Reproduction 8A/8B/8C/8D Revision + Test	8C Respiration 8D Unicellular Organisms 8A/8B/8C/8D Revision + Test	8E Combustion 8F The Periodic Table 8E/8F/8G/8H Revision + Test	8G Metals 8H Rocks 8E/8F/8G/8H Revision + Test	8I Fluids 8J Light	8K Energy Transfer 8L Earth and Space 8I/8J/8K/8L Revision + Test		
		Year 8 Assessments	Biology Exam		Chemistry Exam		Physics Exam		
9 Entry Level Certificate in Science			Biology: Cells, genetics, inheritance and modification	Chemistry: Atoms, compounds and states of matter	Physics: Forces, movement and energy	Biology: Health, disease and the development of medicines	Chemistry: separating mixtures, breaking down substances, acids and metals	Physics: Waves and radiation	Entry Level Certificate

		Entry Level Certificate Paper 1 Biology 1A	Entry Level Certificate Paper 3 Chemistry 1A	Entry Level Certificate Paper 5 Physics 1A	Entry Level Certificate Paper 2 Biology 1B	Entry Level Certificate Paper 4 Chemistry 1B	Entry Level Certificate Paper 6 Physics 1B	
		Biology	Chemistry	Physics	Biology	Chemistry	Physics	
Combined Science 10	Key Stage 4 Science Curriculum	Cell division and growth The nervous system Disease and defence	Groups in the Periodic Table Bonding Formulae, equations and hazards	Using Reflection and Refraction Forces and Work done	Genetics and Variation Non communicable diseases	Reactions of acids Rates of reaction Heat energy changes Obtaining and using metals	Using Electricity Particles and Gasses	GCSE Combined Science exam
Combined Science 11		Plants and Photosynthesis Respiration Hormones and Homeostasis	Calculations involving masses Electrolytic processes Reversible reactions	Using Electromagnetic Waves Movement	Gas exchange and circulation Ecosystems and humans	Fuels Earth and atmospheric science	Electromagnetic Effects Radioactivity	