

	Year 7	KS3	Year 8
<b>Autumn 1</b>	<b>Unit 1: Working scientifically</b> Intro to science <b>Unit 2: Chemistry</b> Particle model of matter <b>Unit 3: Physics</b> Forces and their interactions		<b>Unit 1: Chemistry</b> Periodic table <b>Unit 2: Physics</b> Energy stores and transfers
<b>Autumn 2</b>	<b>Unit 4: Biology</b> Cells, tissues and organs <b>Unit 5: Biology</b> Reproductive systems		<b>Unit 3: Biology</b> Nutrition and digestion <b>Unit 4: Physics</b> Electricity and magnetism
<b>Spring 1</b>	<b>Unit 6: Physics</b> Sound waves <b>Unit 7: Biology</b> Adaptations and variation		<b>Unit 5: Biology</b> Photosynthesis and respiration <b>Unit 6: Physics</b> Pressure and moments
<b>Spring 2</b>	<b>Unit 8: Physics</b> Light waves <b>Unit 9: Chemistry</b> Compounds, mixtures and separating		<b>Unit 7: Chemistry</b> Chemical reactions <b>Unit 8: Chemistry</b> Cycles and the atmosphere
<b>Summer 1</b>	<b>Unit 10: Physics</b> Space <b>Unit 11: Physics/Chemistry</b> Earth science		<b>Unit 9: Biology</b> Ecology <b>Unit 10: Physics</b> Speed and acceleration
<b>Summer 2</b>	<b>Unit 12: Biology</b> Human organisation <b>Unit 13: Chemistry</b> Reactions of metals		<b>Unit 11: Working scientifically</b> Maths for Science at KS4

## KS4 – Entry Level & Further Entry Level

<b>Entry Level Certificate (year 9/10)</b>	<b>Further Entry Level Certificate (Year 10/11)</b>
Paper 1 Cells, genetics, inheritance and modification	Paper 1 Biology - Plants and Ecosystems
Paper 2 Health, disease and the development of medicines	Paper 2 Biology Human Systems
Paper 3 Atoms, compounds and states of matter	Paper 3 Chemical reactions – Patterns and Rates of Reactions
Paper 4 Separating mixtures, breaking down substances, acids and metals	Paper 4 Chemistry in Our World – Fuels and the Earths Atmosphere
Paper 5 Forces, magnetism and energy	Paper 5 Physics – Electricity and Magnets
Paper 6 Waves and Radiation	Paper 6 Physics – Energy and Particles

## GCSE Combined Science – 6 exams (1hr10min)

### **ISCO – 1BF/1BH – Combined Science Biology paper 1**

Topic 1 – Key concepts in biology, Topic 2 – Cells and control, Topic 3 – Genetics, Topic 4 – Natural selection and genetic modification, Topic 5 – Health, disease and the development of medicines

### **ISCO – 1CF/1CH – Combined Science Chemistry paper 1**

Topic 1 – Key concepts in chemistry, Topic 2 – States of matter and mixtures, Topic 3 – Chemical changes, Topic 4 – Extracting metals and equilibria

### **ISCO – 1PF/1PH – Combined Science Physics paper 1**

Topic 1 – Key concepts of physics, Topic 2 – Motion and forces, Topic 3 – Conservation of energy, Topic 4 – Waves, Topic 5 – Light and the electromagnetic spectrum, Topic 6 – Radioactivity

### **ISCO – 2BF/2BH – Combined Science Biology Paper 2**

Topic 1 – Key concepts in biology, Topic 6 – Plant structures and their functions, Topic 7 – Animal coordination, control and homeostasis, Topic 8 – Exchange and transport in animals, Topic 9 – Ecosystems and material cycles

### **ISCO – 2CF/2CH – Combined Science Chemistry Paper 2**

Topic 1 – Key concepts in chemistry, Topic 6 – Groups in the periodic table, Topic 7 – Rates of reaction and energy changes, Topic 8 – Fuels and Earth science

### **ISCO – 2PF/2PH – Combined Science Physics Paper 2**

Topic 1 – Key concepts of physics, Topic 8 – Energy - Forces doing work, Topic 9 – Forces and their effects, Topic 10 – Electricity and circuits, Topic 12 – Magnetism and the motor effect, Topic 13 – Electromagnetic induction, Topic 14 – Particle model, Topic 15 – Forces and matter