

A-level Science Curriculum Plan 2022-23

	Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12	Biology OCR H420	Module 2: Foundations in biology Cell structure Module 3: Exchange and transport Exchange surfaces	Module 2: Foundations in biology Biological molecules Nucleotides and nucleic acids Module 3: Exchange and transport Transport in animals	Module 2: Foundations in biology Enzymes Module 3: Exchange and transport Transport in plants	Module 2: Foundations in biology Biological membranes Module 4: Biodiversity, evolution, and disease Biodiversity Classification and evolution	Module 2: Foundations in biology Cell division, cell diversity and cellular organisation Module 4: Biodiversity, evolution, and disease Communicable disease, disease prevention and the immune system	Pre-public exams (P.P.E.) Practical skills
	Chemistry OCR H432	Module 2: Foundations in chemistry Atoms, ions, and compounds, Amount of substance Module 4: Basic concepts of organic chemistry Alkanes, Alkenes	Module 2: Foundations in chemistry Acids and redox Module 4: Basic concepts of organic chemistry Alcohols, Halogenoalkanes, Organic synthesis	Module 2: Foundations in chemistry Electrons and bonding, Shapes of molecules and intermolecular forces Module 4: Basic concepts of organic chemistry Analytical techniques	Module 3: Periodic table and energy The periodic table and periodicity Group 2 and the halogens Qualitative analysis	Module 3: Periodic table and energy Enthalpy, Reaction rates and equilibrium (qualitative)	Pre-public exams (P.P.E.) Practical skills

	Physics OCR H556	Module 2: Foundations in physics Physical quantities and units Making measurements and analysing data Nature of quantities Module 3: Forces and motion Motion	Module 3: Forces and motion Forces in action Module 4: Electrons, Waves, and Photons Energy, power, and resistance	Module 3: Forces and motion Work, energy, and power Materials Module 4: Electrons, Waves, and Photons Electrical circuits	Module 3: Forces and motion Law of Motion and Momentum Module 4: Electrons, waves and photons Waves 1 Waves 2	Module 4: Electrons, waves and photons Quantum Physics	Pre-public exams (P.P.E.) Practical skills

Year 13	Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Biology OCR H420	Module 5: Communication, homeostasis and energy 5.1 communication and homeostasis Module 6: Genetics, evolution and ecosystems 6.1. Genetics and evolution	Module 5: Communication, homeostasis and energy 5.1 communication and homeostasis Module 6: Genetics evolution and ecosystems 6.2 Cloning and biotechnology	Module 5: Communication, homeostasis and energy 5.2 Energy for biological processes Module 6: Genetics, evolution and ecosystems 6.3 Ecosystems	Module 5: Communication, homeostasis and energy 5.2 Energy for biological processes Module 6: Genetics, evolution and ecosystems 6.3 Ecosystems	Revision Exams	Revision Exams
	Chemistry OCR H432	Module 5: Physical chemistry and transition elements 5.1 Rates, Equilibrium Module 6: Organic Chemistry and Analysis 6.1 Aromatic Chemistry, Carbonyls and carboxylic acids	Module 5: Physical chemistry and transition elements 5.1 pH Module 6: Organic Chemistry and Analysis 6.2 Nitrogen compounds, polymers and synthesis	Module 5: Physical chemistry and transition elements 5.2 Energy Module 6: Organic Chemistry and Analysis 6.3 Analysis	Module 5: Physical chemistry and transition elements 5.3 Transition elements	Revision Exams	Revision Exams
	Physics OCR H556	Module 5: Newtonian World and Astrophysics Thermal Physics Ideal Gases Circular Motion Module 6: Particles and Medical Physics Capacitance Electric Fields	Module 5: Newtonian World and Astrophysics Oscillations Gravitational Fields Module 6: Particles and Medical Physics Magnetic Fields Particle Physics	Module 5: Newtonian World and Astrophysics Stars Cosmology (the Big Bang) Module 6: Particles and Medical Physics Radioactivity Nuclear Physics	Module 5: Newtonian World and Astrophysics Stars, Cosmology (the Big Bang) Module 6: Particles and Medical Physics Medical Imaging	Revision Exams	Revision Exams