Science Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Particle Model and Separating Mixtures	Cells and Movement Energy Costs and Transfers	Digestion and breathing	Elements and Compounds	Forces and Pressure	Ecosystems: interdependence and plant reproduction
Year 8	Waves	Acids and Alkalis	Variation and Evaluation	Electricity and Magnetism	Earth Structure and Climate Universe	Reproduction (Human)
Year 9	Physical and chemical changes Particle model	Particle model Cells	Cells Inheritance	Atoms and Periodic Table Energy	Energy Photosynthesis and Respiration	Photosynthesis and Respiration
Year 10	**Bio:** Cells **Chem:** Structure and Bonding **Phy:** Energy	**Bio:** Organisation **Chem:** Quantitative Chemistry, Chemical Changes **Phy:** Electricity	**Bio:** infection **Chem:** Chemical Changes **Phy:** Particle Model	**Bio:** infection/bioenergetics **Chem:** Energy Changes **Phy:** Atomic Structure	**Bio:** Ecology **Chem:** Chemistry of the Atmosphere **Phy:** Forces	**Bio:** Ecology **Chem:** Rates of Reaction and Equilibrium **Phy:** Forces
Year 11	**Bio:** Homeostasis and response **Chem:** Rates of Reaction and Equilibrium **Phy:** Forces for Combined Forces for Separate	**Bio:** Homeostasis and response **Chem:** Organic Chemistry **Phy:** Waves for Combined Waves for Separate	**Bio:** Inheritance, variation and evolution **Chem:** Chemical Analysis and Using resources **Phy:** Electromagnetism for combined Waves for Separate	**Bio:** Inheritance, variation and evolution **Chem:** Revision for combined Using resources for Separate **Phy:** Revision for combined Electromagnetism and space for Separate	**Bio:** Inheritance, variation and evolution, revision **Chem:** Revision **Phy:** Revision	

A Level Biology

Year 12	Biological molecules Cells	Biological molecules Cells	Gas exchange Genetic information, variation and relationships between organisms	Mass transport Genetic information, variation and relationships between organisms	Energy and ecosystems Populations in ecosystems	Energy and ecosystems Populations in ecosystems
Year 13	Photosynthesis Genetics, populations, evolution and ecosystems	Respiration Responding to stimuli Inherited change The control of gene expression	Nervous system and muscles The control of gene expression	Homeostasis The control of gene expression	Revision	

A Level Chemistry

Year 12	Atoms and reactions Electrons Bonding and Structure	Atoms and reactions Physical Chemistry Electrons Bonding and Structure The Periodic Table	Physical Chemistry The Periodic Table	Basic Concepts and Hydrocarbons Alcohols, Haloalkanes and Analysis	Basic Concepts and Hydrocarbons Alcohols, Haloalkanes and Analysis	Aromatic Compounds Analysis
Year 13	Aromatic Compounds, carbonyls and acids Analysis Energy Rates, Equilibrium	Nitrogen Compounds, polymers, and Synthesis Energy PH	Nitrogen Compounds, polymers, and Synthesis Redox and Electrode potentials and PH	Transition Metals Rates, Equilibrium and PH Redox and Electrode potentials	Revision	

A Level Physics

Year 12	Electrons, Waves and Photons AND Forces and Motion	Electrons, Waves and Photons AND Forces and Motion	Electrons, Waves and Photons AND Forces and Motion	Electrons, Waves and Photons AND Forces and Motion	Newtonian World and Astrophysics	Newtonian World and Astrophysics
Year 13	Newtonian World and Astrophysics	Newtonian World and Astrophysics AND Particles and medical physics	Particles and medical physics	Particles and medical physics	Revision	

Texts and exam boards

Year 7- 9	Year 10-11	Year 12-13
Core texts *OUP AQA Activate Book 1* (ISBN: 978-0-19-840824-6) *OUP AQA Activate Book 2* (ISBN: 978-0-19-840825-3) Students have access to digital versions of these textbooks via Kerboodle.	**Exam board** AQA GCSE Combined Science: Trilogy (specification here) AQA GCSE Biology (specification here) AQA GCSE Chemistry (specification here) AQA GCSE Physics (specification here) **Combined Science Core texts** *Biology for GCSE Combined Science: Trilogy* (ISBN:978-0-19-835926-5) *Chemistry for GCSE Combined Science: Trilogy* (ISBN:978-0-19-835927-2) *Physics for GCSE Combined Science: Trilogy* (ISBN:978-0-19-835928-9) **Separate Science Core texts** *AQA GCSE Biology* (ISBN: 978-0-19-835937-1) *AQA GCSE Chemistry* (ISBN: 978-0-19-835938-8) *AQA GCSE Physics* (ISBN: 978-0-19-835939-5) Students have access to digital versions of these textbooks via Kerboodle.	**Exam board** AQA A Level Biology (7402) (specification here) OCR A Level Chemistry A (H432) (specification here) OCR A Level Physics A (H556) (specification here) **Core texts** *OUP A Level Biology for AQA* (ISBN: 978 0 19 835177 1) *OUP A Level Chemistry for OCR A* (ISBN: 978 0 19 835197 9) *OUP A Level Physics for OCR A* (ISBN: 978 0 19 835218 1) Students have access to digital versions of these textbooks via Kerboodle.