Switching to OCR A from Pearson (Edexcel)

The content within the OCR Chemistry A specification covers the key concepts of chemistry and will be very familiar. We've laid it out in a logical progression to support co-teaching the AS Level and teaching the A Level in a linear way.

OCR Chemistry A (H032/H432)	**Pearson (Edexcel) (8CH0/9CH0)** *(* – topic is split)*
Module 1: Development of practical skills in chemistry Practical skills assessed in a written examination and Practical skills assessed in the practical endorsement	The same practical skills, as mandated by the DfE, are listed in Appendix 5 of the Edexcel specification
Module 2 – Foundations in chemistry Atoms, compounds, molecules and equations Amount of substance Acid–base and redox reactions Electrons, bonding and structure	Topic 1: Atomic Structure & Periodic Table* Topic 2A: Bonding Topic 2B: Structure* Topic 3: Redox I Topic 5: Formulae, Equations and Amounts of Substance Topic 12: Acid-Base Equilibria*
Module 3 – Periodic table and energy The periodic table and periodicity Group 2 and the halogens Qualitative analysis Enthalpy changes Reaction rates and equilibrium (qualitative)	Topic 1: Atomic Structure & Periodic Table* Topic 2B: Structure* Topic 4A: The elements of Groups 1 & 2 Topic 4B: The elements of Group 7 Topic 4C: Analysis of inorganic compounds Topic 8: Energetics I Topic 9: Kinetics I Topic 10: Equilibrium I

OCR Chemistry A (H032/H432)	Pearson (Edexcel) (8CH0/9CH0) *(* – topic is split)*
Module 4 – Core organic chemistry Basic concepts Hydrocarbons Alcohols and haloalkanes Organic synthesis Analytical techniques (IR and MS)	Topic 6A: Introduction to organic chemistry Topic 6B: Alkanes Topic 6C: Alkenes Topic 6E: Alcohols Topic 6D: Halogenoalkanes Topic 7A: Mass spectrometry Topic 7B: Infrared (IR) spectroscopy Topic 18C: Organic Synthesis*
Module 5 – Physical chemistry and transition elements Reaction rates and equilibrium (quantitative) pH and buffers Enthalpy, entropy and free energy Redox and electrode potential Transition elements	Topic 16: Kinetics II Topic 11: Equilibrium II Topic 12: Acid-Base Equilibria* Topic 13A: Lattice energy Topic 13B: Entropy Topic 14: Redox II Topic 15A: Principles of transition metal chemistry Topic 15B: Reactions of transition metal elements
Module 6: Organic chemistry and analysis Aromatic compounds Carbonyl compounds Carboxylic acids and esters Nitrogen compounds Polymers Organic synthesis Chromatography and spectroscopy (NMR)	Topic 17A: Chirality Topic 17B: Carbonyl compounds Topic 17C: Carboxylic acids Topic 18A: Arenes - benzene Topic 18B: Amines, amides, amino acids and proteins Topic 18C: Organic Synthesis* Topic 19B: Nuclear magnetic resonance Topic 19C: Chromatography
Appendix 5e: Mathematical requirements Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry	**Appendix 6: Mathematical skills and exemplifications** Arithmetic and numerical computation Handling data Algebra Graphs Geometry and trigonometry

Note: one Edexcel specification topic (19A Mass Spectrometry) does not appear in the OCR A specification.

Assessment – AS Level

OCR Chemistry A (H032)	Pearson (Edexcel) (8CH0)
AS Paper 1: Breadth in chemistry **Modules 1–4** 70 marks, 50% of AS Level Written paper – 1 hour 30 minutes Section A multiple choice questions, 20 marks. Section B short answer question styles (structured questions, problem solving, calculations, practical) and extended response questions, 50 marks.	**AS Paper 1: Core Inorganic and Physical Chemistry, Topics 1–5 & practical skills** 80 marks , 50% of AS Level Written paper – 1 hour 30 minutes The paper may include multiple-choice, short open, open-response, calculations and extended writing questions.
AS Paper 2: Depth in chemistry **Modules 1–4** 70 marks, 50% of AS Level Written paper – 1 hour 30 minutes Question styles include short answer (structured questions, problem solving, calculations, practical) and extended response questions, including those marked using Level of Response mark schemes.	**AS Paper 2: Core Organic and Physical Chemistry: Topics 2, 5–10 & practical skills** 80 marks, 50% of AS Level Written paper – 1 hour 30 minutes The paper may include multiple-choice, short open, open-response, calculations and extended writing questions.

Assessment – A Level

OCR Chemistry A (H432)	Pearson (Edexcel) (9CH0)
A Level Paper 1: Periodic table, elements and physical chemistry **Modules 1, 2, 3 & 5** 100 marks, 37% of A Level Written paper – 2 hours 15 minutes Section A multiple choice questions, 15 marks. Section B short answer question styles (structured questions, problem solving, calculations, practical) and extended response questions, 85 marks.	**A Level Paper 1: Advanced Inorganic and Physical Chemistry: Topics 1–5, 8, 10–15** 90 marks, 30% of A Level Written paper – 1 hour 45 minutes The paper may include multiple-choice, short open, open-response, calculations and extended writing questions.
A Level Paper 2: Synthesis and analytical techniques, Modules 1, 2, 4 & 6 100 marks, 37% of A Level Written paper – 2 hours 15 minutes Section A multiple choice questions, 15 marks. Section B includes short answer question styles (structured questions, problem solving, calculations, practical) and extended response questions, 85 marks.	**A Level Paper 2: Advanced Organic and Physical Chemistry, Topics 2, 3, 5–7, 9, 16–19** 90 marks, 30% of A Level Written paper – 1 hour 45 minutes The paper may include multiple-choice, short open, open-response, calculations and extended writing questions.
A Level Paper 3: Unified chemistry **Modules 1–6** 70 marks, 26% of A Level Written paper – 1 hour 30 minutes Question styles include short answer (structured questions, problem solving, calculations, practical) and extended response questions.	**A Level Paper 3: General and Practical Principles in Chemistry: All topics & practical skills** 120 marks, 40% of A Level Written paper – 2 hours 30 minutes The paper may include short open, open-response, calculations and extended writing questions.

OCR Chemistry A (H432)	Pearson (Edexcel) (9CH0)
Practical Endorsement in chemistry Separately reported non–exam assessment, with candidates demonstrating competence in a range of skills and techniques, in a minimum of 12 assessed practical activities. Teacher assessment against the Common Practical Assessment Criteria.	**Practical Endorsement in chemistry** Separately reported non–exam assessment, with candidates demonstrating competence in a range of skills and techniques, in a minimum of 12 assessed practical activities. Teacher assessment against the Common Practical Assessment Criteria.