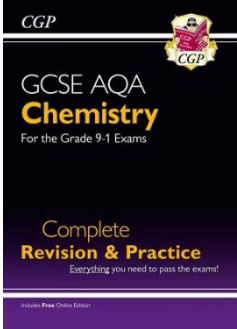


Transition Map

Subject	GCSE CHEMISTRY									
Contact	Nick Mitchell									
Email	nmitchell@utcswindon.co.uk									
Exam Board	AQA									
Course Outline	<p>2 Year course covering:</p> <ol style="list-style-type: none"> 1. Atomic structure and the periodic table 2. Bonding, structure, and the properties of matter 3. Quantitative chemistry 4. Chemical changes 5. Energy changes 6. The rate and extent of chemical change 7. Organic chemistry 8. Chemical analysis 9. Chemistry of the atmosphere 10. Using resources 									
Assessment	<table border="1"> <tr> <td>Paper 1:</td> </tr> <tr> <td>What's assessed Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.</td> </tr> <tr> <td>How it's assessed <ul style="list-style-type: none"> • Written exam: 1 hour 45 minutes • Foundation and Higher Tier • 100 marks • 50% of GCSE </td> </tr> <tr> <td>Questions Multiple choice, structured, closed short answer and open response.</td> </tr> </table>	Paper 1:	What's assessed Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.	How it's assessed <ul style="list-style-type: none"> • Written exam: 1 hour 45 minutes • Foundation and Higher Tier • 100 marks • 50% of GCSE 	Questions Multiple choice, structured, closed short answer and open response.	<table border="1"> <tr> <td>Paper 2:</td> </tr> <tr> <td>What's assessed Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources. Questions in Paper 2 may draw on fundamental concepts and principles from sections 4.1 to 4.3.</td> </tr> <tr> <td>How it's assessed <ul style="list-style-type: none"> • Written exam: 1 hour 45 minutes • Foundation and Higher Tier • 100 marks • 50% of GCSE </td> </tr> <tr> <td>Questions Multiple choice, structured, closed short answer and open response.</td> </tr> </table>	Paper 2:	What's assessed Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources. Questions in Paper 2 may draw on fundamental concepts and principles from sections 4.1 to 4.3.	How it's assessed <ul style="list-style-type: none"> • Written exam: 1 hour 45 minutes • Foundation and Higher Tier • 100 marks • 50% of GCSE 	Questions Multiple choice, structured, closed short answer and open response.
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Pre-Reading List	 <p>Grade 9-1 GCSE Chemistry AQA Complete Revision & Practice with Online Edition Product code: CAS45 ISBN: 9781782945840</p>									

Useful Links	<ul style="list-style-type: none"> • BBC Bitesize: https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb • Free Science Lessons: Atomic Structure & The Periodic Table (20 Videos): https://www.youtube.com/playlist?list=PL9IouNCPbCxULWXC09jt0PsuAbxYpw2_1
Key Literacy	<p>For Unit C1 you should already know.</p> <ul style="list-style-type: none"> • A simple model for the atom representing atoms as hard, solid spheres of differing sizes and masses. • The differences between atoms, elements and compounds • How to use chemical symbols and formulae to represent elements and compounds • How to represent chemical reactions using formulae and using chemical equations. • How patterns in reactions can be predicted with reference to the Periodic Table • The properties of metals and non-metals • The conservation of mass in chemical reactions • How to use the particle model to describe changes in state
Subject Specific Terminology	<ul style="list-style-type: none"> • Atom, Element, Compound • Periodic Table • Period & Group • Nucleus, Proton, Neutron, Electron, Orbital, Energy level • Reactant, Product, Precipitate, State symbol, Solution, Aqueous, Solid, Liquid, Gas • Balanced Symbol equation, • Crystallisation, Distillation, Filtration, Chromatography, Liebig Condenser • Charge, Atomic Number, Atomic Mass • Ions, Isotopes, Electronic Structure • Ratio
Activities to complete before Joining	<p>Research these 4 key questions:</p> <ol style="list-style-type: none"> 1. What are Atomic Numbers and Relative Atomic masses and how do different types of atom differ from each other? 2. Why was the development of the Periodic Table such an important scientific breakthrough? 3. How do atoms bond to each other? 4. How can we use chemical equations to predict reacting quantities? <p>Make sure you understand the term Ratio!</p>