

Year 10  
SEPARATE SCIENCE CHEMISTRY

Subject Title	GCSE Chemistry
Exam board	AQA
Specification code	9462
Entry Level	Foundation and Higher Tier
Exam details	<p>Two papers Duration – 1hour 45 minutes; 100 marks per paper Each paper 50% of GCSE Questions: Multiple choice, structure, closed short answer and open response</p> <p><b>Chemistry Paper 1</b> Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.</p> <p><b>Chemistry Paper 2</b> 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.</p>
Setting arrangements	N/A
Time allowed	12 lessons per fortnight 12 x 50 minutes
Textbooks and revision guides	<p><b>Textbooks</b> AQA GCSE Chemistry – 978-0-19-835938-8 On line versions of text book is provided</p> <p><b>Revision Guide</b> CGP – GCSE Chemistry ISBN: 978-1-78-294577-2</p>
Homework information	2 Homeworks per week x 50 minutes Exam style questions; Research; Assessment; Revision; and Retrieval practice

Term	Topics	Skills	Assessment
1	Review home learning: Chemistry of the atmosphere	Practical and investigation skills. Information retrieval. Listening and observing. Scientific reading. Data representation. Scientific writing. Knowledge presentation. Mathematical skills.	Formative skills assessments focusing on required practicals.  Retrieval practice – exam style questions
2	Rates of reaction Titrations Yield and atom economy Using concentrations	Practical and investigation skills. Information retrieval. Listening and observing. Scientific reading. Data representation. Scientific writing. Knowledge presentation. Mathematical skills.	Formative skills assessments focusing on required practicals.  Retrieval practice – exam style questions
3	Reactivity of metals Group 0, 1 & 7 Elements Properties of transition metals Electrolysis	Practical and investigation skills. Information retrieval. Listening and observing. Scientific reading. Data representation. Scientific writing. Knowledge presentation. Mathematical skills.	Formative skills assessments focusing on required practicals.  Retrieval practice – exam style questions  Year 10 Exam
4	Energy changes Nanoparticles Chemical and fuel cells	Practical and investigation skills. Information retrieval.	Formative skills assessments focusing on required practicals.  Retrieval practice – exam style questions

	<p>Quantitative chemistry</p> <p>Chemical changes</p> <p>Reactions of acids</p>	<p>Listening and observing.</p> <p>Scientific reading.</p> <p>Data representation.</p> <p>Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	
5		<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing.</p> <p>Scientific reading.</p> <p>Data representation.</p> <p>Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p>
6	<p>Reversible reactions and dynamic equilibrium</p> <p>Chemistry of the atmosphere</p>	<p>Practical and investigation skills.</p> <p>Information retrieval.</p> <p>Listening and observing.</p> <p>Scientific reading.</p> <p>Data representation.</p> <p>Scientific writing.</p> <p>Knowledge presentation.</p> <p>Mathematical skills.</p>	<p>Formative skills assessments focusing on required practicals.</p> <p>Retrieval practice – exam style questions</p>
Links to websites and revision materials:		<p>Online text book - <a href="https://www.kerboodle.com/users/login">https://www.kerboodle.com/users/login</a></p> <p>Revision resources <a href="https://www.bbc.co.uk/bitesize/subjects/zrkw2hv">https://www.bbc.co.uk/bitesize/subjects/zrkw2hv</a></p> <p>Quizzes <a href="https://www.educationquizzes.com/gcse/science/">https://www.educationquizzes.com/gcse/science/</a></p> <p><a href="https://senecalearning.com/en-GB/">https://senecalearning.com/en-GB/</a></p>	