




## Grade 9 Chemistry will be learning...

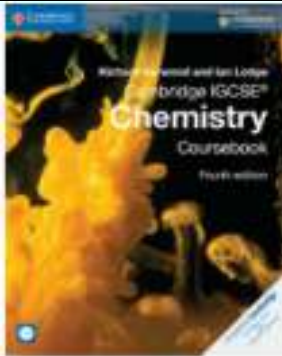

Term 1	Term 2	Term 3	Working towards
<p>Experimental techniques and Particles, atomic structure, ionic bonding and the Periodic Table</p> <p>Students will familiarise themselves with the basic techniques required for laboratory work as well as recall the names and functions of laboratory apparatus. The functionality of the Periodic Table will be explored and linked to the structure of the atom. From there students will begin to learn about types of bonding in the form of ionic bonding.</p>	<p>Air and water and Acids, bases and salts</p> <p>Students will learn about the macro and microscopic properties of water and air as well as learn about the responsible usage of natural resources.</p> <p>The macroscopic and microscopic properties of acids and bases will be explored, using the students' knowledge of water. The simplest reactions involving acids, bases and metal salts will be explored both theoretically and practically. The students will be expected to balance equations, predict products and perform practicals unaided but supervised at the end of this term.</p>	<p>Reaction rates and Metals and the Reactivity Series</p> <p>Students will learn about the factors that affect the rate at which reactions occur and the effects that these factors have on the various reactions. The practical application of this section will be explored in terms of effects on industrial preparations of various chemicals e.g. fertilisers.</p> <p>The behaviour of metals and how they react with other substances will be explored in more detail. The practicals proving the reactivity series as well as the theoretical links to the electronic structure of the atom will be explored.</p>	<p>Full practice exams for core and extend using iGCSE past papers. These will occur at the end of term 1 and term 2 to show the progress made prior to the examined Chemistry iGCSE.</p>

### Books you may find useful:

	<p>Cambridge IGCSE® Chemistry Student Book Second Edition (Cambridge International IGCSE) Paperback – 2014</p> <ul style="list-style-type: none"><li>• <b>ISBN-10:</b> 9780007592654</li></ul>
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 	<p>Cambridge IGCSE Chemistry: Coursebook with CD-ROM Fourth Edition (Cambridge International IGCSE) Paperback – 2014</p> <ul style="list-style-type: none"><li>• <b>ISBN-10:</b> 9781107615038</li></ul> <p>Cambridge IGCSE Chemistry: Workbook (Cambridge International IGCSE) Paperback – 2016</p> <ul style="list-style-type: none"><li>• <b>ISBN-10:</b> 9781107614994</li></ul>
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