Year 11: Chemistry	Curriculum Intent: in year 11 combined science Chemistry the aim is to build on students knowledge learned from         year 7-10 to being able to apply this knowledge. Exam skills will be taught through recapping the knowledge the         students have developed in the following topics:         Particles and atoms         Elements, compounds and mixtures         Chemical reactions         Monitoring and controlling chemical reactions         Global challenges								
	<b>Topic 1</b> Particles and atoms	<b>Topic 2</b> Elements, compounds and mixtures	<b>Topic 3</b> Chemical reactions	<b>Topic 4</b> Predicting chemical reactions	<b>Topic 5</b> Monitoring and controlling chemical reactions	<b>Topic 6</b> Global challenges			
Key ideas	<ul> <li>Particles</li> <li>Atomic structure</li> <li>Developing the atom</li> </ul>	<ul> <li>Formula</li> <li>Purity</li> <li>Separating mixtures</li> <li>Metals</li> <li>Ions</li> <li>Compounds</li> <li>Periodic table</li> <li>Properties</li> </ul>	<ul> <li>Balancing equations</li> <li>Detecting gases</li> <li>Moles</li> <li>Endothermic and exothermic reactions</li> <li>Acid and alkali reactions</li> <li>Electrolysis reactions</li> </ul>	<ul> <li>Group 1, 7 and 0</li> <li>Reactivity of metals</li> </ul>	<ul> <li>Rates of reactions</li> <li>reversible reactions</li> <li>equilibrium</li> </ul>	<ul> <li>extracting metals</li> <li>life cycle assessments</li> <li>alkanes and crude oil</li> <li>atmosphere</li> <li>climate change</li> </ul>			
Sequence of Learning - Key Questions	All questions will be covered from years 7-10 topics								
Vocabulary	All vocabulary will be covered from years 7-10 topics								
Practical Skills	All practical skills will be recapped from years 7 – 10 topics								

Assessment (Related to mastery grids)	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions
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