



## Year 11: Combined 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
- Predicting chemical reactions
- Monitoring and controlling chemical reactions
- Global challenges

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
<b>Key ideas and sequence of learning</b>	<b>Module 3 Chemical reactions</b> <ul style="list-style-type: none"> <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>	<b>Module 4: Predicting chemical reactions</b> <ul style="list-style-type: none"> <li>• Group 1, 7 and 0</li> <li>• Reactivity of metals</li> </ul> <b>Module 5: Monitoring and controlling chemical reactions</b> <ul style="list-style-type: none"> <li>• Rates of reactions</li> <li>• reversible reactions</li> <li>• equilibrium</li> </ul> <b>Module 6: Global challenges</b> <ul style="list-style-type: none"> <li>• extracting metals</li> </ul>	Revision and consolidation  Students will review their PPE exam papers in detail to identify strengths and weaknesses  Students will then prepare for their GCSE exams in lessons with their teacher.  They will also have intervention sessions where they revise key practical skills	Revision and consolidation  Students will then prepare for their GCSE exams in lessons with their teacher.  Students begin their GCSE exams	Students finish their GCSE exams
<b>Key Questions</b>	All questions will be covered from years 7-10 topics				
<b>Vocabulary</b>	All vocabulary will be covered from years 7-10 topics				
<b>Practical Skills</b>	N/A		See above		