

Success at Sixth Form – Subject Specific Tips

Subject Chemistry					
Class and homework expectations					
Students should bring the following items to each lesson:					
 equipment/stationery (scientific calculator, black/blue pen, green pen, highlighters, ruler, pencil, paper, textbook) 					
 Daily folder containing - periodic table personal learning checklists all the class work, homework and notes for the units that they are currently working on with each teacher 					
Scheme of Work					
Year 12 Ye			Year 13	Year 13	
Module 1 – Development of practical skills in chemistry Module 2 – Foundations in chemistry Module 3 – Periodic table and energy Module 4 – Core organic chemistry		Module 5 – Physical chemistry and transition elements Module 6 – Organic chemistry and analysis			
Assessment Objectives					
AO1 – Knowledge & Understanding		AO2 – Application of knowledge & understanding		AO3 – How Science Works	
Candidates should be able to:		Candidates should be able to:		Candidates should be able to:	
 recognise, recall and show understanding of scientific knowledge; select, organise and communicate relevant information in a variety of forms. 		 analyse and evaluate scientific knowledge and processes; apply scientific knowledge and processes to unfamiliar situations including those related to issues; 		 demonstrate and describe ethical, safe and skilful practical techniques and processes, selecting appropriate qualitative and quantitative methods. 	
		 assess the validity, reliability and credibility of scientific information. 		 make, record and communicate reliable and valid observations and measurements with appropriate precision and accuracy. 	
				• analyse, interpret, explain and evaluate the methodology, results and impact of their own and others' experimental and investigative activities in a variety of ways.	

Assessment

Year 12 (UCAS Examinations, Year 12 Summer Term):

- Paper 1 Breadth in Chemistry 50% of the overall grade 70 marks split over 6 or 7 structured questions including calculations and extended response questions on all Year 12 topics
- Paper 2 Depth in Chemistry 50% of the overall grade 70 marks split over 6 or 7 structured questions including calculations and extended response questions on all topics

Year 13 (A-level examinations, Year 13 Summer Term):

- Paper 1 Periodic Table, elements and physical chemistry 37% of overall A Level grade 100 marks on structured questions including calculations, and extended response questions on modules 1, 2, 3 and 5
- Paper 2 Synthesis and analytical techniques 37% of overall A Level grade 100 marks on structured questions including calculations, and extended response questions on modules 1, 2, 4 and 6
- Paper 3 Unified chemistry 26% of overall A Level grade 70 marks on structured questions including calculations, and extended response questions on all modules

Practical Endorsement – students will carry out 12 core practical activities during the two-year course, which will be written-up in a lab book and internally assessed. This will appear as a pass or fail on their A Level certificate.

In addition to the summative assessments listed above, students will take end of topic and progress tests at regular intervals.

How to do well in the subject at A Level

- Attend all lessons and catch-up any work missed
- Keep folder organised and up to date
- Respond to the feedback provided by your teacher (feedback tasks and tests)
- Spend a minimum of 5 hours per week studying chemistry. The time should be spent on:
 - Completing homework (on time)
 - Learning all key terms and definitions (use flashcards)
 - Practising key mathematical skills (e.g. the amount of substance section) regularly
 - Practising past examination questions
 - Using Seneca learning, textbooks and websites to support your studies
 - Keeping Personal Learning Checklists up to date and using them to inform revision

Support available

- Analysis of the January mock examinations will identify areas that require improvement teachers will provide specific support materials/plan lessons to support the development of these areas
- Exam questions and model answers will be provided regularly
- Students should see their teacher for help if needed

How parents can help support

- Please help your son or daughter to organise their folder and keep it up to date
- Check that they are doing homework and studying independently as described above
- Discuss with them any letters that you receive about their progress

Helpful websites or resources

www.ocr.org.uk

www.chemguide.co.uk

www.a-levelchemistry.co.uk

https://www.senecalearning.com/

Revision guides can be purchased from Student Reception