

Chemistry @ WBS Year 13 Roadmap

Subject Aim: To build on Year 12 Chemistry knowledge and to develop confidence in further areas of Physical, Inorganic, Organic and Analytical Chemistry and to use key practical techniques confidently. Topics will be split across two teachers. One will cover Organic and Calculations, the other Inorganic and Physical. (*The order is correct, not all in numerical order*)

TTP and Autumn Term	Topic 1.8 Thermodynamics
	Looking at different factors that affect rxns
	Topic 1.9 Rate equations
	Looking at rates quantitatively
	Topic 1.10 Kp
	Calculating equilibrium constants for gases
	Topic 1.12 Acids + bases
	Reactions of acids, bases and buffers
	Topic 1.11 Electrochemical Cells
	The chemistry of batteries and fuel cells
	Topic 3.7 Naming and Isomerism
	Chemistry of Isomers & naming compounds
Spring Term	Topic 3.15 Structure Determination
	Using instrumentation to determine structure
	Topic 3.8 Aldehydes and ketones
	Chemistry of aldehydes and ketones
	Topic 3.9 Carboxylic acids
	Chemistry of carboxylic acids
	Topic 3.10 Aromatic Chemistry
	Chemistry of aromatic compounds
	Topic 3.11 Amines
	Chemistry of amines
	Topic 3.12 Polymerisation
	Chemistry of polymers
	Topic 2.4 Period 3
	Chemistry and trends of Period 3
	Topic 2.5 Transition metals
	Chemistry of Transition metals
	Topic 2.6 Reactions of aqueous ions
	Chemistry of aqueous metal ions
Topic 3.13 Amino acids, proteins and DNA	
Chemistry of amino acids, proteins and DNA	
Topic 3.14 Organic Synthesis and Analysis	
Links all Organic Chemistry (Topic 3) together	
Topic 3.16 Chromatography	
Analysing mixtures	
Summer Term	Practical Questions
	Review of all the Required practical's
	Revision
	Review all content from year 12+13

Assessment

There will be formal Key Assessments throughout Y13. You will be given the topic titles that you need to revise 2-3 weeks prior to the assessment. You should also use your SIS to help you to prepare. You will be expected to revise independently outside of lesson time. The second, third and fourth

assessment in Year 13 will be mock exams.

Extra Assessment if needed	4/9/23
Key Assessment 1	7/11/23
Key Assessment 2	11/1/24
Key Assessment 3	w/c 4/3/24

Independent Study and Revision

Independent Study is set by your class teacher on Brightspace. This will include the SIS, Quizzes and written homeworks.

Announcements regarding Key Assessments will be made by the Head of Chemistry on Brightspace several weeks before the test date. You will also be told about this in lessons.

You are strongly advised to revisit your notes often throughout the year to consolidate your learning and to make assessment preparation as straightforward as possible.

Enrichment themes

We will highlight links to careers in and utilising Chemistry throughout the year. You are encouraged to approach your Chemistry teachers for further advice on pursuing Chemistry at a higher level.

There will also be chance to take part in the RSC Chemistry Olympiad.

Where Next?

University degree, higher level Apprenticeship or gap year – enjoy-