CHEMISTRY

Year 12					
When	**WHAT & WHY WILL THEY LEARN?** (SOW overview linked to assessment Objectives) What do Yr12/13 need to know and be able to do by the time they leave TENC? How do you sequence the teaching? How do you revisit, revise and reinforce?	**New Skill = NS** **Revisit = R** **Revision = RV**	**Stretch and Challenge (Differentiation – how will you stretch the most able to achieve top grades?)** Is your curriculum challenging?	**CIEAG/Extension** **Enrichment** Trips, workshops, speakers, local environment and experiences	**KS4 PRIOR LEARNING** How will GCSE knowledge, skills & experience across 3 schools link to and support KS5 new knowledge and skills? This needs to show how you build links across the experiences of the different schools
Term Plan	**KNOWLEDGE & SKILLS**	**Assessment Objective**		**Band 5 = Informed** **Band 6 = Mature**	
	Transition Task Analysing and Interpreting IR and Mass Spec data in preparation for the organic chemistry element of the course.	A01 A02 A03	NS			Students will have studied the basics of organic chemistry at GCSE and will need to build on this by completing extra research for this transition task.
Term 1	Introduction Module 1 Development of	A01 A02 A03	R NS	Informed and Mature Extension opportunities		Checking prior knowledge of charges on ions, formulae and equations is essential as the foundation to the course. Often a

| | Practical Skills in Chemistry (begins and continues throughout the course alongside modules 2,3 and 4. Practical skills of planning, implementing, analysis and evaluation are practised via a series of practical activity groups (PAGs) Module 2 Foundations in Chemistry Module 3 Periodic table and Energy (part 1)

PAGs 1,2 and 4 completed | A01 A02 A03 | NS

NS and RV | available on each PAG Mature Sophistication of practical techniques will build up over time and the planning tasks will ensure most differentiation and extension. Will encourage independent research.

Use of the Website Chemguide is encouraged as it gives more detailed explanations and cross curricular links for those students who wish to explore content further. | | good indicator of future attainment.

Students will have carried out required practical tasks at GCSE and developed some of the necessary skills for A level but often worked in larger groups or shown demonstrations. At A level they will be expected to work more independently and as individuals (where resources and numbers allow) |

Term 2	Module 2 Periodic table and energy (part 2) Module 4 Core Organic Chemistry PAG 3 completed	A01 A02 A03	NS and RV NS and R			Students will track progress throughout the year, respond to teacher feedback and reflect upon their performance as they will have done to some degree at GCSE but this will be more crucial at A level.
Term 3	Module 2 Periodic table and Energy (part 3) Module 3 Core Organic Chemistry (part 2) PAG 5 completed Revision for end of year exam Begin Module 4 Synthesis and Analytical techniques	A01 A02 A03	NS and RV R	Use of Keboodle resources provide support for differentiation; there are stretch and challenge activities and follow up activities based on practical tasks. Checklists are provided for each topic within a module.	'Spectroscopy in a Bag?'	

CHEMISTRY   YEAR 13

Year 13						
When	**WHAT & WHY WILL THEY LEARN?** (SOW overview linked to assessment Objectives)		**New Skill = NS Revisit = R Revision = RV**	**Stretch and Challenge** (Differentiation – how will you stretch the most able to achieve top grades?)	**CIEAG/Extension** Trips, workshops, speakers, local environment and experiences	**KS4 PRIOR LEARNING** How will GCSE knowledge support new skills & knowledge	**IDENTIFY LINKS** How will you link learning between schools? What common threads do you have?
Term Plan	**KNOWLEDGE & SKILLS**	**Assessment Objective**		**Band 5 = Informed Band 6 = Mature**			
	Transition Task						
Term 1	Module 5 Physical Chemistry and transition	A01 A02 A03	NS RV			Year 12 knowledge built on	Have taught same content in Year 12 and Y13 all at Ferrers

	elements (part 1) Module 6 Synthesis and Analytical Techniques					Year 12 knowledge built on	As above
Term 2	Module 5 (part 2)		NS				