



Forward Planning

Long-Term Semester Planning

Academic Year: 2020-2021

Class: S7

Subject: CHEMISTRY

Teacher: B. GILBERT

No. Students: 11





Curriculum – Long-Term Planning 2020-2021

Dates	Learning objectives	Learning outcomes / Assessment	Key competences	Activities / Resources
September - October	1. ORGANIC CHEMISTRY: GENERALITIES 1.1 Families and functional groups / substituents 1.2 Physical properties: intermolecular bonds, boiling points, solubility, dimerisation 2. ACIDS AND BASES 2.1 Basics: definitions; A/B pairs; amphoters; ionic product; pH and pH scale 2.2 Relative strength of acids: carboxylic acids; acid constant 2.3 Relative strength of bases: amines; base constant	Exercises to be made at home: used to evaluate the personal work and efforts for the A mark Homeworks: a longer work given one week ahead and to be given back; will be marked; based on previous bac subjects Tests: approximately every 3 weeks; covering a full chapter/topic Practicals: some of them will be marked	Maths Science Technology and Engineering Personal, social and learning to learn Literacy Maths Science Technology and Engineering Digital Citizenship	Textbook: A-Level Chemistry – E.N.Ramsden – Nelson Thornes Activity sheets will be provided regularly Previous exam subjects will be provided gradually Extra material (bac subjects, exercises) will be provided when necessary





	2.4 Acid/base reactions 2.5 pH of aqueous solutions 2.6 Predominance diagram and buffer solutions 2.7 Salt hydrolysis				
		Vacance	Vacances de Toussaint		
3. ALCOHOLS, CARBOXYLIC ACIDS AND ESTERS 3.1 Esterification 3.2 Hydrolysis of an ester 3.3 Polyesters November December 4. REDOX REACTIONS 4.1 Basics			Maths Science Technology and Engineering Personal, social and learning to learn Maths Science Technology and Engineering Personal, social and learning to learn		
	4.2 Redox reactions in organic chemistry: alcohols, aldehydes and ketones				





	5. TITRATIONS				
	5.1 Redox titrations				
			Noël - Christmas		
	5.2 Acid/ba	se titrations			
	REVISIONS Prebac				
	6. OPTICAL ISOMERISM PreBac				
	7. CARBOHYDRATES				
January - February	8. ELECTROC 8.1 Standa potential			Maths Science Technology and Engineering Digital Personal, social and learning to learn	
Vacances d'hiver					





March - April	AMINO-A 10.1 poly 10.2 11. FURTH	osion D OILS PTIDE BOND AND		Maths Science Technology and Engineering Personal, social and learning to learn	
			Vacances de Pâques		
May - June	11.3 Am	nines : azo-dyes			