



Forward Planning

Long-Term Semester Planning

Academic Year: 2020-2021

Class: S7

Subject: Lab Science

Teacher: J.RIEHL

No. Students: 10





Curriculum – Long-Term Planning 2020-2021

Dates	Learning objectives	Learning outcomes / Assessment	Key Competences	Activities / Resources		
September - October	TECHNIQUES IN CHEMISTRY 1. Conductivity and its use to measure concentrations a. Titration by calibration of a sodium chloride solution b. Titration of chloride ions in a mineral water 2. Spectrometry and absorbance: titration by calibration	B Test 1 : written 30 min* A mark based on work, behaviour, lab reports	 Literacy (reading and writing) Mathematics, Science, Technology and Engineering Digital Personal, Social and Learning to Learn Cultural Awareness and Expression 	Practicals Working in groups		
	Vacances de Toussaint					
November - December	 3. Organic synthesis: producing a medication (aspirin: synthesis, purification, identification (TFC, melting point) 4. Aspirin: the various formulations 		 Literacy (reading and writing) Mathematics, Science, Technology and Engineering Personal, Social and Learning to Learn 			





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	5. Chemistry and cooking : molecular		8. Cultural Awareness and					
	gastronomy		Expression					
B TEST 1								
	Christmas holidays							
January - February	 6. Titration of a triprotic acid: phosphoric acid in a cola beverage 7. Potentiometric titration: iron(II) ions 		 Literacy (reading and writing) Mathematics, Science, Technology and Engineering Digital Personal, Social and Learning to Learn Cultural Awareness and Expression 					
Winter holidays								
March - April	 Arduino: use of an electronics platform (introduction) TinkerCard and Arduino: a simulator Using Arduino to build a light detector 		 Literacy (reading and writing) Mathematics, Science, Technology and Engineering Digital Personal, Social and Learning to Learn Cultural Awareness and Expression 					





Spring holidays					
May - June	Using Arduino : another application (group project)	B Test 2 : a practical, individual assessment of 1 hour	 Literacy (reading and writing) Mathematics, Science, Technology and Engineering Digital Personal, Social and Learning to Learn Cultural Awareness and Expression 		
B TEST 2					