Ecole Internationale Provence-Alpes-Côte d'Azur

Forward Planning

Long-Term Semester Planning

Academic Year: 2020-2021

Class: S6
Subject: Chemistry
Teacher: J.RIEHL
No. Students: 14

Curriculum – Long-Term Planning 2020-2021

Dates	Learning objectives	Learning outcomes / Assessment	Key Competences	Activities / Resources
September - October	**1. ELECTRONIC STRUCTURE OF THE ATOM AND THE PERIODIC TABLE** 1.1 Rutherford model 1.2 Quantum model of the atom 1.3 Orbital model **2. CHEMICAL BONDS** 2.1 Covalent bonds	**Homework :** exercises given regularly **Homework :** a long one (similar to a bac question) is given and marked every 2/3 weeks **Tests** : every 3 weeks approximately, a 1P test	1. Literacy (reading and writing) 3. Mathematics, Science, Technology and Engineering 5. Personal, Social and Learning to Learn 8. Cultural Awareness and Expression	**Textbook : Chemistry A-level / E.N.Ramsden / Nelson Thornes 2000** Extra paperwork from other textbooks or sources may be given sometimes
Vacances de Toussaint				
November - December	2.2 Ionic bonds 2.3 Comparison of properties of covalent and ionic compounds 2.4 Metallic bonds **3. INTER-MOLECULAR BONDS**		1. Literacy (reading and writing) 3. Mathematics, Science, Technology and Engineering 5. Personal, Social and Learning to Learn	

	4. IDEAL GAS LAW			
B TEST 1				
Christmas holidays				
January - February	**5. ENERGY IN CHEMISTRY** 5.1 Conservation of energy 5.2 Enthalpy change 5.3 Entropy change 5.4 Spontaneity of a transformation		1. Literacy (reading and writing) 3. Mathematics, Science, Technology and Engineering 4. Digital 5. Personal, Social and Learning to Learn	
Winter holidays				
March - April	**6. CHEMICAL KINETICS AND EQUILIBRIA** 6.1 The factors which determine the rate of a chemical transformation 6.2 Collision Theory and Transition State Theory 6.3 Reversible reactions		1. Literacy (reading and writing) 3. Mathematics, Science, Technology and Engineering 5. Personal, Social and Learning to Learn 8. Cultural Awareness and Expression	

	6.4 Factors influencing equilibria **7. ORGANIC CHEMISTRY** 7.1 Properties of hydrocarbons : alkanes		1. Literacy (reading and writing) 3. Mathematics, Science, Technology and Engineering 5. Personal, Social and Learning to Learn 6. Citizenship 8. Cultural Awareness and Expression	
Spring holidays				
May - June	7.2 Properties of hydrocarbons : alkenes ; aromatic compounds 7.3 Determination of the structure of an organic substance		1. Literacy (reading and writing) 3. Mathematics, Science, Technology and Engineering 5. Personal, Social and Learning to Learn	
B TEST 2				
June	7.4 Determination of the structure of an organic substance			