LONG TERM PLAN 2023/2024

YEAR GROUP: 9 SUBJECTS: Chemistry

Week Start	Content Description	Assessment	Events
September			
3rd	**The particulate nature of matter** •States of matter and their interconversion in terms of the kinetic particle theory. •State the distinguishing properties of solids, liquids, and gases in terms of particle separation, arrangements, and types of motion	Summative: questioning and groups observations	
10th	**The particulate nature of matter** •Description and explanation of diffusion. •Evidence for the movement of particles in gases and liquids	End of topic exam	10-14th CEM Assessments (7,9 & 11) 14th Target Grades Deadline (8,10, 12) 14th Year 7 Picnic
17th	**Atoms, elements &compounds part 1** • State the relative charges and masses of protons, neutrons, and electrons. Define proton number and mass number (nucleon number)	Formative: Baseline assessment Quiz	17-20th CEM Assessments (7,9 & 11)
24th	**Atoms, elements &compounds part 1** • Use proton number to explain the basis of the periodic table. • Define and explain isotopes and their uses. Describe the build-up of electrons in 'shells' and explain the significance of the noble gas electronic structures and of the outer shell electrons	End of topic exam	28th Prophet's Birthday - Observed
October			
1st	**Atoms, elements &compounds part 2** • Bonding: the structure of matter • Formation of ions and ionic bonds. Molecules and covalent bonds.	Summative: questioning and groups observations Quiz	4th Swimming Gala 5th Armed Forces Day
8th	**Atoms, elements &compounds part 2** •Formation of single covalent bonds. •Differences between ionic and covalent compounds.	End of topic exam	8th Target Grade Deadline (7,9,11) 10th Careers Day
15th	**Atoms, elements &compounds part 3** •Simple molecular structure •Macromolecular structure •Some macromolecules- the giant covalent	Formative: hand signals and success criteria reflection	
22nd	Half Term Break		
29th	**End of topic Exam**		31st Orange and Black Day
November			

5th	**Atoms, elements &compounds part 3** •Giant ionic structure •Giant metallic structure	End of topic exam	
12th	**Separation Techniques** • Measurement Criteria of purity	Formative: Baseline assessment Quiz	
19th	**Separation Techniques** • Methods of purification Practical methods of separating different mixtures and immiscible liquids	End of topic exam	AP1 Written Comments Deadline
26th	**Separation techniques Practical**	Practical verbal feedback	
December			
3rd	AP1 revision		4th First Day AP1 Exams
10th	AP Exam		15th Last Day AP1 Exams
17th	Reflection on Ap1 Exam		22nd Winter Break
25th	Winter Break		
January			
1st	Winter Break		
7th	**Stoichiometry** • Symbols of the elements and the formulae of simple compounds.	Summative: questioning and groups observations	8th First Day
14th	**Stoichiometry** • Word equations and simple balanced chemical equations. • Relative atomic mass, Ar, and relative molecular mass Mr.	Formative: Baseline assessment Quiz	
21st	**Introduction to reactions** Types of reactions	Summative: questioning and groups observations	25th National Holiday
28th	**Periodic table** • Periodic trend across a period. • Group properties. • Transition elements. • Noble gases Practical session explaining the trends of reactivity for metals	Formative: hand signals and success criteria reflection	
February			
4th	**Ionic equations**	Formative: Competition activity	
11th	**Chemical energetics** •Energetic of a reaction: meaning of exothermic and endothermic reaction. •Describe bond breaking and bond forming	Formative: Baseline assessment Quiz	

	•Draw and label energy level diagram for exothermic and endothermic reactions using data provided		
18th	**Chemical energetics.** • Calculate the energy of a reaction using bond energies. • Production of energy: -Production of heat energy and burning fuels -Hydrogen as a fuel	End of topic exam	21-22nd Half Term
25th	**Redox reactions** • Understand what is meant by Redox reactions and to be able to identify oxidation reduction reactions	• Summative: questioning and groups observations	
March (10th Ramadan Starts)			
3rd	**Reversible reactions** • Understand that some chemical reactions can be reversed by changing the reaction conditions	Formative: hand signals and success criteria reflection	
10th	**Reversible reactions** • Predict the effect of changing the conditions on the reversible reactions. • Demonstrate knowledge and understanding of the concept of equilibrium	Formative: Baseline assessment	
17th	**Rate or chemical reactions** • A practical method for investigating the speed of a reaction involving a gas being produced.	End of topic exam	
24th	**Rate or chemical reactions** • Practical session explaining the effect of temperature, concentration, and surface area on the rate of reaction	Practical verbal feedback	
April			
31st	**Practical** Practical sessions on rate of reaction	Practical verbal feedback	
7th	**Revision and End of topic Exam**		10-11th Eid Holiday
14th	End of year Revision	Marking and verbal feedback	
21st	End of year Revision	Marking and verbal feedback	25th Spring Break
28th	Spring Break		
May			
5th			7th Start of Term 2
12th			
19th	End of year Revision	Marking and verbal feedback	
26th	End of year Revision	Marking and verbal feedback	

June			
2nd	Introduction to year 10 Chemistry		6th End of year assembly
9th	Introduction to year 10 Chemistry		12th Last day for Students 13th Last day for Teachers
End of Year			
Additional Notes:			