Curriculum Plan		Subject	Chemistry - Ozo	one (OZ)	Year	12	
Spring 2		W/C 22 nd	February	W/C 1st March	W/C	8 th March	
How you will access home learning		The PowerPoint and lesson materials will be made available on the day of each lesson either on Show My Homework, g drive or uploaded to your class group on teams (your teacher should make you aware of this). You will need access to your Chemistry AS textbook via Kerboodle.					
How you be able to interact with your teacher and gain feedback on your work		You will be able to join each lesson via Microsoft Teams. This will enable you to listen to teacher delivery, to ask questions, and to complete the same tasks live, as if you were working in the lesson. If you can't make the lesson live then a recording will be saved on teams and be available in the files section. You can join in with questioning in the lesson using the chat function to check your understanding. For any tasks that can't be self-assessed using the lesson PowerPoints or Kerboodle (end of chapter questions), oral feedback will be given during the live teams' sessions.					
Retrieval How we will help you to recall previously learnt knowledge		Questions to test recall knowledge of pollutant gases and their effects from GCSE will be used. The maths content in OZ2 builds on EL2, covered before Christmas, so recap questions will be set.		This week's work is entirely new (no build from GCSE) so retrieval tasks will centre around previously covered A level topics (EL, DF and ES).	Questions to test recall knowledge of rates of reaction from GCSE will be used.		
New Learning	What you will be learning about this week	OZ1-What's in the air & In OZ1 you will learn the country the atmosphere and carry concentrations of gases from to parts per million. In O compare the energy of difficult describe energy chang explain why the atmosph	orrect terms for layers of out calculations to convert om percentage composition IZ2 you will use E = hv to ferent forms of radiation les in simple molecules and	OZ3 - How is ozone formed in the atmosphere OZ3 aims to define heterolytic and homolytic fission and to introduce equations to represent initiation, propagation and termination stages of radical chain reactions.	OZ4 - Ozone: Here today and gone tomorrow OZ4 describes methods of investigating reaction kinetics, lists factors which affect the rate of a reaction and explain the effect of each factor using collision theory. Finally, enthalpy profiles and Maxwell- Boltzmann distributions to show the effect of temperature and catalysts are discussed.		
	How we will teach you the new knowledge or ideas	There will be a brief s explanations and discus PowerPoint content and t used to support the (section of teacher led ssions introducing OZ1. teacher modelling will be	There will be a detailed section of teacher led explanations and discussions about OZ3. PowerPoint content and teacher modelling will be used to support the OZ3 activities below.	explanations and disc teacher modelling will	rief section of teacher led ussions. PowerPoint content and be again be used to support the ivities below.	
	Activities that will help you learn and practice what you've been taught	OZ1 content will be acquire textbook on Kerboodle. Pr the basis of cons	ractice questions will form	Exam style questions practicing mechanism drawing will be used to consolidate learning in OZ3.	work. Students at through access to exp	be used together with practical home will be able to interact erimental procedures and model the questions that follow.	
	What you can do if you are stuck	If you are accessing a live lesson through Microsoft teams, the chat function can be used to ask any questions you wish to be answered immediately and within the lessons. Any questions relating to specific homework tasks set on SMHW can be asked through the chat function on SMHW, and failing that, an email can be sent to your teacher to ask any general questions.					

		W/C 15 th March	W/C 22 nd March	W/C 29 th March			
How you will access home learning		The PowerPoint and lesson materials will be made available on the day of each lesson either on Show My Homework, g drive or uploaded to your class group on teams (your teacher should make you aware of this). You will need access to your Chemistry AS textbook via Kerboodle.					
How you be able to interact with your teacher and gain feedback on your work		You will be able to join each lesson via Microsoft Teams. This will enable you to listen to teacher delivery, to ask questions, and to complete the same tasks live, as if you were working in the lesson. If you can't make the lesson live then a recording will be saved on teams and be available in the files section. You can join in with questioning in the lesson using the chat function to check your understanding. For any tasks that can't be self-assessed using the lesson PowerPoints or Kerboodle (end of chapter questions), oral feedback will be given during the live teams' sessions.					
Retrieval How we will help you to recall previously learnt knowledge		Questions to recall knowledge on catalysts (DF5), reaction profiles (DF1) and radicals (OZ3) will be used.	Questions to recall knowledge on electronegativity (DF6) and drawing/naming isomers (DF9) will be used.	Questions to recall knowledge of reaction mechanisms (DF6 and OZ3) will be used.			
New Learning	What you will be learning about this week	OZ5 - What is removing the Ozone? OZ5 defines homogeneous catalysis, looks at enthalpy profiles to compare reactions with and without catalysts, and uses equations with radicals to explain how haloalkanes are depleting ozone levels in the stratosphere.	OZ6-The CFC story & OZ7-The Ozone hole OZ6 describes why bonds can be polar, defines an intermolecular bond and a dipole, and explains why some molecules have permanent dipoles. OZ7 introduces another intermolecular bond called a Hydrogen bond.	OZ8 - The state of the Ozone layer now OZ8 looks at naming and drawing amines. It then defines and explains the role of a nucleophile, and details reaction mechanism for nucleophilic substitution of haloalkanes. The final section looks at experimental data to investigate haloalkane reactivity.			
	How we will teach you the new knowledge or ideas	There will be a detailed section of teacher led explanations and discussions about OZ5. PowerPoint content and teacher modelling will be used to support the OZ5 activities below.	Again, there will be a detailed section of teacher led explanations and discussions about OZ6. Interactive boardworks presentations will be used to bring the ideas to life.	There will be a brief section of teacher led explanations and discussions. PowerPoint content and teacher modelling will be again be used to support the activities below.			
New	Activities that will help you learn and practice what you've been taught	Exam style questions practicing mechanism drawing will be used to consolidate learning in OZ5.	Exam style questions targeting different types of bonding will be used to consolidate learning in OZ6.	Practice questions will be used together with practical work. Students at home will be able to interact through access to experimental procedures and model data to answer the questions that follow.			
	What you can do if you are stuck	If you are accessing a live lesson through Microsoft teams, the chat function can be used to ask any questions you wish to be answered immediately and within the lessons. Any questions relating to specific homework tasks set on SMHW can be asked through the chat function or SMHW, and failing that, an email can be sent to your teacher to ask any general questions.					