YEAR 12 G /D – CHEMISTRY

WEEK 5 (27th September to 1st October)

Work Sent to the students through Zoom Learning Platform / Google classroom

Topic:— Electronic configurations

Ionisation energies

Resources: Text book, Worksheet file, video, power point presentations.

Date	Topic	
29.09.2020 Tuesday 1 12G 28.09.2020 Monday 3 12D Mode of Teaching: Zoom	Lesson Objective: Know that electrons fill subshells singly, before pairing up, and that two electrons in the same orbital must have different spins. Be able to predict the electronic configurations, using 1s notation and electrons in-boxes notation, of i) atoms, given the atomic number, <i>Z</i> , up to <i>Z</i> = 36 ii) ions, given the atomic number, <i>Z</i> , and the ionic charge, for <i>s</i> and <i>p</i> block ions only, up to <i>Z</i> = 36. Learning Outcome: Deduce electronic configurations of atoms and ions using spdf configuration. Compare the exceptions of Cu and Cr due to added stability of half-filled or filled 3d sub shell.	Teacher uses PowerPoint presentation that contains interactive questions to explain the arrangement of electrons in the different atomic orbitals.
29.09.2020 Tuesday 2 12G 7 12D Mode of Teaching: Zoom	Lesson Objective: Be able to define the terms 'first ionisation energy' and 'successive ionization energies' Understand how ionisation energies are influenced by the number of protons, the electron shielding and the electron sub-shell from which the electron is removed Learning Outcome: Define 1 st and 2 nd ionization Energies. Writes few equations with state symbols. Apply the factors affecting ionization energy to predict the trends across a period and down a group	Teacher uses PowerPoint presentation that contains interactive questions to explain the term 'ionisation energy' and the factors influencing the ionization energies.

30.10.2020		
Wednesday	Lesson Objective: To answer the questions in the worksheet on Electronic	Worksheet assigned
2 12G	configuration.	through GC
24.09.2020	Learning outcome: Students will be able to reinforce the concepts learned in the previous lesson by solving the worksheet	Instruction will be given in the GC to complete the worksheet
Thursday		and turn in
7 12D		
Mode of Teaching:		
GC		

HOMEWORK: Complete the textbook questions Q1 - Q3, on page 23

YEAR 12 D/G- CHEMISTRY

WEEK 5 (27th Sept to 1st October)

Work Sent to the students through Zoom Learning Platform / Google classroom Topic 2- Shapes of molecules and ions .

Resources: Text book, Worksheet, Video, Boardworks, powerpoint

Date	Topic	
29.09.20	Learning Objective:	Teacher uses powerpoint and
Tuesday 8 12D	- To be able to recall the VSEPR theory - To understand how the VSEPR theory can be	interactive animation for shapes.
	used to predict molecular geometry for 5 elctron pairs - To visualize the shapes of molecular orbitals	
27.09.20	using animation.	
Monday	Learning Outcome:	
6 12G	Explain molecular geometry five electron pairs in various combinations of bond pair and lone pairs.	molecule-shapes_en.html •
Mode of		
Teaching – Zoom	Explain shape of various ions and simple molecules with 5 pairs of electrons.	Instructions will be given to complete chapter questions.

27.09.20	I	Tagahar usas navvarnaint		
27.09.20	Learning Objective:	Teacher uses powerpoint		
Monday	- To visualize the shapes of molecular orbital on	presentation and animations to		
	the basis of repulsion between lone pairs is much	explain shapes.		
7- 12G	more than repulsion between lone pair and a bond			
	pair, as well as repulsion between bond pairs			
		Teacher uses worksheet that		
	Learning Outcome:	contains interactive questions,		
		to explain the shapes.		
	- describes shape that molecules form			
30.09.20	various numbers of bond pairs and lone and			
	lone pairs for total six pairs of electrons.			
Wednesday	-			
7- 12D	Predict the bond angles, shapes of simple			
	molecules and ions using electron pair repulsion			
	theory.			
Mode of				
Teaching –				
Teaching				
ZOOM				
	Learning Objective:	Teacher uses past paper		
20.00.20	- To understand how the VSEPR theory can be	questions based on bonding.		
30.09.20	used to predict molecular geometry on the bases of			
Wednesday	bond pairs and lone pairs			
	To visualize the shapes of molecular orbital on the			
8- 12D	basis of repulsion between 6 pairs of electrons in			
1-12G	various combination of lone pairs and bond pairs.			
	- to understand the shape of complex ions.			
Mode of	Learning Outcome:			
Teaching –	Learning Outcome.			
Zoom	- describes shape that molecules form			
250111	various numbers of bond pairs and lone and			
	lone pairs for total six pairs of electrons.			
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HOMEWORK. Solve the given work sheet				

HOMEWORK: Solve the given work sheet.