

FORMAT FOR DESIGNING KPIS: Class XII Chemistry

SHEET 1-(chapters- Electrochemistry, Chemical Kinetics, Haloalkanes & Haloarenes, Alcohol, Phenol and Ether, d and f block)

What are the problems?	Compilation of problems	Categorization of Problems (Subjective & Behavioral)
<ul style="list-style-type: none"> • Students find problem in applying Nernst equation in various cell representation (A).(application) • Students were facing problem in calculations involving 'log' (Computing). ○ Students commit mistakes in deriving the formula for rate constant of unknown gaseous reaction.(application) • Student commit mistakes in giving IUPAC names and drawing correct structures of the organic compound.(application and synthesis) ○ Student find problem in remembering the chemical equations.(Knowledge) ○ Students commit mistake in applying the various reactions in conversions of compound.(Analyse and apply) • Students find problem in memorizing the d block series.(knowledge) 	<ul style="list-style-type: none"> • Students face problems related to interpretation and application. • Problem based on Conceptual understanding • Problem in synthesis of chemical structures. • Problem in remembering the facts and reactions. • Problems in analysing skill. • Problems in creating new compounds with the help of known reactions. 	<p>Subjective Problems :</p> <ul style="list-style-type: none"> • Students only mug up the formula but do not understand the logic/Principle behind the concept. • Students are not able to solve numericals based on the concepts. • Students do not learn the rules of writing IUPAC names and so find problem in giving names and writing structures. • Students do not practice writing of chemical equations and creating new compounds by assembling the reactions. <p>Behavioural Problems :</p> <ul style="list-style-type: none"> • Students lack focus and perform careless mistakes during application of formulae. • Lack of regular practice in numerical and IUPAC naming. • Students do not revise on a regular basis so as to learn and remember the concept. • Students lack writing practice of chemical reactions.

<ul style="list-style-type: none"> Students commit mistake in graph analysis and analysis of properties in periods and groups. (Analysis) 		
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SHEET 2- (To be prepared in Excel)

ANNUAL PEDAGOGICAL PLAN (Grade ____ - SUBJECT)

KPI NAME	KPI DEF. NO	KPI DEFn.	WHERE ARE WE NOW? (scale & description)	KPI GOAL	KPI LIMIT	WHAT WE NEED TO DO?	HOW WILL IT BE ACHIEVED?	KPI MEASUREMENT	REVIEW	KPI REPORTING	KPI ACHI
Problem solving skills in class XII students	1	To improve the performance of students in calculation and observation skills while doing log calculation ,applying nernst equation and deriving formulae of rate constant in gaseous equation.	60% students are able to do accurate calculation and derivation of formula	70%	±3	1. We will help the student to observe minor details while solving problem of Nernst equation. 2. Help the students to solve problem having 'log' 3. We will give individual practice on class board. 4. Peer learning can be developed.	<ul style="list-style-type: none"> Highlighting the minor details of the Nernst equation in step chart. Encourage students for practice By giving them a sheet containing problem of Nernst equation and rate constant. 	By conducting class test after finishing the chapter.	After completion of chapter.	At the end of the term.	

							<ul style="list-style-type: none"> • By taking a regular follow up of 'log' calculation. • By discussing the common errors made by students in board exams and giving examples. 				
To increase Conceptual understanding and application	2.	To strengthen in depth understanding of the concept like periodicity in properties of d block, rules of IUPAC nomenclature and the preparation and properties of chemical compounds and develop application skills.	50 % of the student understand the concepts well and apply it also.	60%	+/- 3	<ul style="list-style-type: none"> • Explain the concept well . • Discuss general doubts • Motivate to Increase focus and listening skills of students • Take a quick recap of chapter • Regular revision of the concept • Give practice sheets 	<ul style="list-style-type: none"> • For better understanding explain the concept by- # Connecting it with their previous knowledge # Use simple language and 2-3 examples of each concept #Use visual display of the topic • Discuss questions of exercise and worksheet related to the concept • Check their attention in class by asking questions in between 	By conducting oral and written test	After completion of the chapter.	At the ned of the term.	

							<ul style="list-style-type: none"> • Identify a student and ask him to give a quick summary of the class • Draw concept maps on board. • Provide practice sheet of IUPAC naming and drawing structures. 				
To promote analytical thinking and creativity	3.	To develop skills of comparison, experimentation and assemble various concepts or chemical equation to create a new compound .	50% of the students are comfortable in solving such problems	60%	+/- 3	<ul style="list-style-type: none"> • Group discussions regarding comparative study • Provide flow chart for preparation of compounds • Interlink the chapters of organic chemistry 	<ul style="list-style-type: none"> • Give MCQ sheets of the chapter including questions of ascending, Descending order, differentiation • Daily give 5 equations to learn and 5 conversions to write. 	By conducting class test after finishing the chapter.	After first term		

