

## FORMAT FOR DESIGNING KPIS:

### Class XI Chemistry

**SHEET 1-( Basic Concepts of chemistry, Structure of atom, Classification of elements & periodicity in properties, Chemical bonding & molecular structure, Redox reactions.)**

What are the problems?	Compilation of problems	Categorization of Problems (Subjective & Behavioral)
<ul style="list-style-type: none"> <li>• Students find problem in applying the formulae correctly. (<b>Application</b>)</li> <li>• Students find problem in understanding the numericals of stoichiometric concepts.</li> <li>• Students were facing problem in calculations and unit conversions. (<b>Calculation</b>)</li> <li>• Students commit mistake in writing atomic number, electronic configuration of elements and identifying its groups, periods and block. (<b>Application</b>)</li> <li>• Students find problem in analysing the periodicity in properties and creating structure of various compounds and graph analysis. (<b>analysis</b>)</li> </ul>	<p># Students face problems related to interpretation and application.</p> <p># Students find problem in calculations.</p> <p># Students find problem in language expression and understanding.</p> <p># Students commit mistakes in problem analysis.</p> <p># students commit mistake in creating molecular structures on the basis of hybridisation</p>	<p><b>Subjective Problems :</b></p> <ul style="list-style-type: none"> <li>• Students only mug up the formula but do not understand the logic/Principle behind the concept.</li> <li>• Students are not able to do unit conversions.</li> <li>• Students commit mistakes in writing configuration, balancing of equations.</li> <li>• Student commit mistakes in graphical analysis and analysing the periodicity in properties.</li> </ul> <p><b>Behavioural Problems :</b></p> <ul style="list-style-type: none"> <li>• Students lack focus and perform careless mistakes during application of formulae and in mathematical calculations.</li> <li>• Lack of regular practice in numerical.</li> <li>• Expressing the concepts in proper language.</li> <li>• Time management during exam.</li> </ul>

<ul style="list-style-type: none"> <li>• Students find problem in balancing of various ionic equations.( <b>Application</b>)</li> <li>◦ Students find problem in interpretation of terms like ionization energy, dipole moment , resonance etc .( <b>Understanding</b> and <b>Evaluation</b>)</li> <li>• Students find difficulty in applying the concepts in various examples.(<b>Application</b>)</li> <li>• Students find problem in expressing the concept in proper language and in time management</li> </ul>		
---	--	--

**SHEET 2- (To be prepared in Excel)**

**ANNUAL PEDAGOGICAL PLAN (Grade XI\_\_\_ - 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 ACHIEVE
Problem solving skills in class XI students	1	To improve the performance of students in calculation ,application of formulae and unit conversions. ( Ch-1,2)	50% students are able to do accurate calculation and derivation of formula	60%	±3	1. We will help the students to evaluate the values given in numerical . 2. Help the students to apply correct formula. 3. We will give practice of numericals. 4. practice of unit conversion and simplify calculation. 4. Peer learning can be developed.	<ul style="list-style-type: none"> <li>Motivate students to read numerical carefully and go for step wise solution.</li> <li>Encourage students to learn all the formulae and prepare its sheet.</li> <li>By make them learn units practice its interconversion in simple steps.and simplify calculation by round off</li> <li>By giving practice sheets.</li> <li>By discussing the common errors made by students in</li> </ul>	By conducting numerical test after finishing the chapter. By taking class quiz.	After completion of chapter.	At the end of the term.	

							board exams and giving examples.				
2. Correct interpretation and Application	2.	To improve understanding and application skills in students. ( like writing electronic configuration of elements, Balancing of ionic equations, solving questions on dipole moment, resonance etc.) (c-2,3,4, 5)	55% students understand and apply the concept correctly	65%	+ -2	1. Develop reading skills 2. showing visual content 3. Discussing 5 to 6 examples in each topic 4. Simplify the content and provide notes. 5. TAKE REGULAR REVISION 6. Give practice sheets of case study based questions.	<ul style="list-style-type: none"> <li>Give H.W. to read the chapter from NCERT.</li> <li>Show video of chapter and draw diagrams while explanation on board.</li> <li>Make students write the content along in notebook.</li> <li>Take oral revision or discussion after finishing any topic.</li> <li>Give worksheet of each chapter.</li> </ul>	<ul style="list-style-type: none"> <li>By giving questions based on critical thinking and case study based questions.</li> <li>Motivate peer learning.</li> </ul>	After periodic test	After 1 <sup>st</sup> term.	
3. correct expression of concept in exam	3.	To improve the presentation and expressing skills of students during exam. (c-3,4),	70% students are able to write answers correctly .	80%	+/- 2	<ul style="list-style-type: none"> <li>Giving key words for the answers</li> <li>Giving writing practice</li> <li>Prepare notes</li> </ul>	<ul style="list-style-type: none"> <li>Students will highlight the key words of every answer.</li> <li>Writing practice is given in sheets</li> <li>Discussing marking scheme of papers in class.</li> </ul>	<ul style="list-style-type: none"> <li>By taking test of theoretical answers .</li> </ul>	After completion of chapter.		

