FORMAT FOR DESIGNING KPIs:

Annual pedagogical plan (APP) Term 1

CLASS VII SCIENCE

Chapters:- Ch1 Nutrition in plants , Ch2 Nutrition in animals , Ch3 Structure of matter ,

Ch5 Heats and its effects, Ch 6 Flow of heat, Ch14 Motion and time, Ch 19 Our forests.

What are the problems?	Compilation of problems	Categorization of Problems (Subjective & Behavioral)						
Students face problems in :	Students find problems in:	Subjective Problems:						
 Interpretation of various scientific terms such as - types of nutrition, flow of heat-conduction, convection & radiation, types of motion, frequency, oscillation decomposers, atomicity, valency. Ch- 2,3,6,14 In drawing the diagrams Of human digestive system, amoeba, rumination the process of th	 Relating and remembering the concept with daily life and interpreting various scientific terms.(Understanding) Drawing diagrams, and in identifying the specimen, colour, odour etc. (Knowledge) Analysis of graph and Understanding the language of question paper and time management during exam. (Analyse) 	 Students are not able to understand the new scientific concept. Students are unable to relate concept with day-to-day life activities Deriving formula, analyse graphs and applying concepts. Inter conversion of units and solving problems. Comprehending problems while solving the numerical. 						
 thermometers ,sea breeze & land breeze, simple pendulum . Ch- 1,2,5,6,14 Calculation of speed , velocity and measuring time & temperature and conversion of units.Ch-5,14 In learning and remembering the new/difficult scientific concepts of balancing of 	• Deriving chemical formula using concept of valency and applying the learned concepts to daily life application.(Application)	 BehavioralProblems: Lack of practice of diagrams. Lack of focus/attention while making observation in laboratory. Lack of scientific approach. Lack of interest and concentration in the topic, it takes more time to understand the topic. 						

chemical equation. Chemical	
formula, conversion of	
temperature scale, Ch-3,5	
• Comprehending the language of	
question paper and Time	
management during the	
examination.	
Differentiate between speed	
and velocity. Uniform & non	
uniform, compound &mixtures,	
autotrophic& heterotrophic	
nutrition, conductors &	
insulators. Ch- 1,3,5,14	
• Identification of common	
elements & their symbols,	
atomicity, chemical equation,	
temperature scale. Ch-3	
• Analysis of graph or pictorial	
questions. <mark>Ch-14</mark>	
• Applying concepts to day-to-day	
life.	

SHEET 2-

Format For Designing KPI,

CLASS VII SCIENCE

КРІ	KPI DE	KPI DEFn.	WHERE ARE	KPI GO	KPI LIMI	WHAT WE NEED TO DO?	HOW WILL IT BE ACHIEVED?	KPI MEASUREME	REVIEW	KPI REPORTING	KPI ACHIE	KPI IMPR
NAME	F.		WE	AL	т						VEME	OVEM
	NO		NOW?								NT	ENT
			(scale &									
			desc									
			ription)									
Underst	1	To develop	Appr. 55%	65	±3	To enable the	1.Classroom	• By	After	At the end of		
anding		understandi	students	%		students to-	discussion and	assigr	nme complet	term 1		
of		ng of	are able				explanation on	nts, p	en ion of			
scientifi		complex	to			1.Understand	nutrition and its	paper	chapter.			
С		scientific	understan			some steps of	types, effects of	test.				
concept		concepts	d the			nutrition in	heat, measurement	• By				
in class		based on	scientific			animals and the	of time.	evalu	atin			
VII		nutrition and	concepts .			process of		g thei	r			
student		its types,				rumination	2 .Video	works	shee			
s.		structure of				condition for	demonstration on	ts.				
		matter				stability and	working of	• By				
		,temperatur				formation of ions.	stomata, crop	drawi	ng a			
		e and its				2.Explain the	rotation and soil	conce	pt			
		measuremen				elements,	replenishment,	map				
		t, flow of				compounds,	human digestive	expla	inin			
		heat, motion				mixture,	system	g				
		and its types.				atomicity.	,rumination, clocks	nutrit	ion			

				I						1		
						 3. Compare the different modes of transfer of heat. (Explaining- U) 4. Explain working of stomata and the concept of crop rotation. 5. Comparison between compound & mixture. 6. Explain the construction and working of different types of scientific equipment such as thermometer, thermo flask and simple pendulum. 	 and watches. 3. Worksheets including higher order thinking skillsquestions based on the listed complex concepts can be given to the students and discussed in the class. 4. Through various classroom activities like to show fungus on bread , to make the simple pendulum & measure time period. 	•	in humans. Assessme nt activities like -labelling of different organs and writing their function. By taking regular follow up			
Analytic al & observa tion skill.	2	Inculcation of analytical and observation skill in students while identification of specimen and observe effects of heat and chemical reactions in	Appr.50% of students are able to analysis and observe .	60 %	±2	 Developing the habit of practicing diagramsof stomata, human digestive system and thermos flask. Helping the students to memorize some common elements & their symbols and chemical 	 Students will be motivated to do more and more practice of drawing the diagrams given in their notebook By animated video and Demonstration and show chart of human digestive system and food chain. By conducting an 	•	By assignme nts, pen paper test By conductin g class test after finishing the chapter. By evaluativ	After complet ion of chapter.	At the end of the term 1.	

		daily life activities.				formulae. 3. Helping the students to identify and differentiate compounds & mixtures, uniform & non uniform motion.	activityto show the plants need chlorophyll for photosynthesis. 4. By Conducting competition/quiz by dividing the class in group of 4/5. 5. By taking regular follow up of practicing diagrams, concept map.		e their practice sheets.			
						4. Peer learning can be developed.						
Applicat ion skill.	3	To motivated the students towards applications of scientific concepts in real world situations, measuremen t of physical quantities and solving numerical questions with accuracy related to	Appr. 45% of the students are able to apply the learned concepts to day to day life.	55 %	±3	 Implement smart techniques for maintaining the temperature of the house without using coolers and heaters Convert one system of unit into another. Plot graph on the basis of the given data with the usage of suitable scale. Correlate the 	1. Performance of the activities conducted by the students using the scientific concepts to develop application skills such as model making of arrangement of atoms and molecules, and demonstrate the expansion and contraction of substances due to heat.	•	By assignme nts, pen paper test By conductin g class test after finishing the chapter. By evaluativ e their practice sheet and	After complet ion of chapter.	At the end of term 1.	

calculation		modes of transfer	2. To encourage		Performa		
of speed,		of heat to the	them to practice		nce of the		
distance,		usage of different	the uses of		activities		
time, and		clothes in	thermometers to		by the		
time period		different parts of	measure the		students.		
		the world (Polar,	temperature	•	By taking		
		temperature,	3. By Conducting		regular		
		tropical, etc.).	competition/quiz		follow up.		
		5 Develop a	by dividing the				
		concept map/	class in group of				
		mind map of	4/5.				
		various topics.					