

ODM Teachers' Note

Class	VII		Subject			CHEMISTRY
PD	8	Chapte	er-3	ELEMEN' MIXTURE	•	COMPOUNDS AND
Recapitulation of the previous taught.	 Separation of Liquid-Liquid Mixtures. By Separating Funnel Fractional Distillation Separation of Gas-Liquid Mixtures. 					
Sub-Concepts	 Modern Techniques Chromatography Separation of constituents of the mixtures with more than one constituent 					
Teaching Aid To be used	Smart Class, P	owerPo	oint pre	sentation,	cla	ssroom objects, charts.
Learning Outcome	 ✓ The students will be able to get knowledge of the modern method of separation like Chromatography. ✓ The students will be able to get knowledge Separation of constituents of the mixtures with more than one constituent 					
SI. No	Step Wise (What to be done)					
1 Introduction	For Achievers Teacher shediscussion of which will reveal topic of the check what's your vision of the integral of the integral of the integral inte	olve ard apter lil ew on t d mixtu to acqu	ound the ce, the sep res?	topics, ne core aration)	Average They would made familiar with the modern methods of separation like Chromatography. They would know of the process of separation of constituents of more

	methods of separation. Vision to get knowledge of the process of Chromatography. They would know of the Separation of constituents of the mixtures with more than one constituent
2.Chromatography	CHROMATOGRAPHY: - Chromatography is a method used to separate mixture that comprises solutes that dissolve in the same solvent. This method gets its name from the Greek word for colour —Kroma, as it was first used for separating colours. Principle: Chromatography is based on differential affinities of compounds towards two phases, i.e. stationary and mobile phase. The fraction with greater affinity towards stationary phase travels shorter distance while the fraction with less affinity towards stationary phase travels longer distance. Chromatography is used for separating colours in a dye, pigments from natural colours and drugs from blood.
3- Advantages of Chromatography 4. Uses of Chromatography	 A very small quantity of the substance can be separated. Components with very similar physical and chemical properties can be separated. It identifies the different constituents of a mixture.

	USE OF CHROMATOGRAPHY	
	 Used to separate pigments from natural colours. 	
	Drugs from blood.	
	Colours in the dye	
	Sand, Saw-dust and Salt: - It involves three methods i.e., Sedimentation, Decantation and Evaporation.	
4. Separation of constituents of the mixtures with more		
than one constituent	Iron fillings, Sulphur and Common Salt: - It involves three methods i.e., Magnetic Separation, Filtration, and Evaporation	
5.Home Assignment	Exercise -II Q8 a, b, c, d, e, f	