

Class	VII	Subject	CHEMISTRY
PD	3	Chapter-3	ELEMENTS, COMPOUNDS MIXTURES
Recapitulation of the previous taught.	<ul style="list-style-type: none"> ✓ We had learnt about writing the symbols of elements. ✓ We had learnt of the methods to write the chemical symbols of elements. ✓ We had learnt of the characteristics of compounds. 		
Sub-Concepts	<ul style="list-style-type: none"> • Mixtures and its characteristics • Kinds of mixtures. 		
Teaching Aid To be used	Smart Class, PowerPoint presentation, classroom objects, charts.		
Learning Outcome	<ul style="list-style-type: none"> • Student will be able to know about the mixtures along with examples. • They would know about the characteristics of the mixtures. • They would be able to know of the homogenous and heterogenous mixtures. 		
Sl. No	Step Wise (What to be done)		
1. Introduction	<p>For Achievers</p> <p>Teacher should initiate the discussion on following topics, which will revolve around the core topic of the chapter like,</p> <p>What's your view on the types of substances in this world?</p> <ul style="list-style-type: none"> ➤ Vision to acquire knowledge of the symbols of the elements. ➤ They need to know of the various rules for writing the symbols. ➤ Vision to acquire knowledge of the characteristics of a compound. 	<p>For Average</p> <ul style="list-style-type: none"> ➤ They would made familiar mixtures. ➤ They would know of the characteristics of mixtures. ➤ They would know of the various rules for writing the symbols. 	

2. Mixtures	<p>Mixture Any impure substances that are made up of two or more materials combined in any ratio. The components of a mixture can be separated easily by physical methods.</p>												
3. Characteristics of Mixtures.	<p>CHARACTERISTICS OF MIXTURE</p> <p>Various elements just mix together to form a mixture and no new compound is formed.</p> <p>A mixture has a variable composition.</p> <p>A mixture shows the properties of its constituents.</p> <p>They do not have a fixed melting point, boiling point, etc.</p> <p>The constituents can be separated easily by physical methods</p>												
4.Kinds of Mixtures.	<p>Types of mixture It is of two types: (a) Homogeneous mixture (b) Heterogeneous mixture.</p> <table border="1" data-bbox="311 1131 1410 1626"> <thead> <tr> <th data-bbox="319 1143 409 1237">S. No.</th><th data-bbox="409 1143 890 1237">Homogeneous mixture</th><th data-bbox="890 1143 1410 1237">Heterogeneous mixture</th></tr> </thead> <tbody> <tr> <td data-bbox="319 1237 409 1388">1.</td><td data-bbox="409 1237 890 1388">All the components of the mixture are uniformly mixed.</td><td data-bbox="890 1237 1410 1388">All the components of the mixture are not thoroughly mixed.</td></tr> <tr> <td data-bbox="319 1388 409 1500">2.</td><td data-bbox="409 1388 890 1500">No separation boundaries are visible.</td><td data-bbox="890 1388 1410 1500">Separation boundaries are visible.</td></tr> <tr> <td data-bbox="319 1500 409 1626">3.</td><td data-bbox="409 1500 890 1626">It consists of a single phase.</td><td data-bbox="890 1500 1410 1626">It consists of two or more phases.</td></tr> </tbody> </table>	S. No.	Homogeneous mixture	Heterogeneous mixture	1.	All the components of the mixture are uniformly mixed.	All the components of the mixture are not thoroughly mixed.	2.	No separation boundaries are visible.	Separation boundaries are visible.	3.	It consists of a single phase.	It consists of two or more phases.
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5.Home Assignment	Exercise-II Q1 & Q2												

