

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

2. Mixtures	<p>Mixture</p> <p>Any impure substances that are made up of two or more materials combined in any ratio</p> <p>The components of a mixture can be separated easily by physical methods.</p>												
3. Characteristics of Mixtures.	<p><b>CHARACTERISTICS OF MIXTURE</b></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><b>Types of mixture</b></p> <p>It is of two types: (a) Homogeneous mixture (b) Heterogeneous mixture.</p> <table border="1" data-bbox="316 1126 1417 1619"> <thead> <tr> <th data-bbox="316 1126 427 1238">S. No.</th> <th data-bbox="427 1126 898 1238">Homogeneous mixture</th> <th data-bbox="898 1126 1417 1238">Heterogeneous mixture</th> </tr> </thead> <tbody> <tr> <td data-bbox="316 1238 427 1395">1.</td> <td data-bbox="427 1238 898 1395">All the components of the mixture are uniformly mixed.</td> <td data-bbox="898 1238 1417 1395">All the components of the mixture are not thoroughly mixed.</td> </tr> <tr> <td data-bbox="316 1395 427 1507">2.</td> <td data-bbox="427 1395 898 1507">No separation boundaries are visible.</td> <td data-bbox="898 1395 1417 1507">Separation boundaries are visible.</td> </tr> <tr> <td data-bbox="316 1507 427 1619">3.</td> <td data-bbox="427 1507 898 1619">It consists of a single phase.</td> <td data-bbox="898 1507 1417 1619">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.
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.											
5.Home Assignment	Exercise-II Q1 & Q2												

