

ELEMENTS, COMPOUNDS AND MIXTURES

SUBJECT-CHEMISTRY

CHAPTER-03

CHAPTER NAME-ELEMENTS, COMPOUNDS AND MIXTURES

PERIOD-4

CHANGING YOUR TOMORROW



LEARNING OBJECTIVE

- ✓ Difference between compounds and mixtures.
- ✓ Formation of mixtures.
- ✓ Types of mixtures based on states of components.



DIFFERENCE BETWEEN MIXTURES AND COMPOUNDS

S. No.	Mixtures	Compounds
1.	Various elements just mix together to form a mixture and no new compound is formed.	Elements react to form new compounds.
2.	A mixture has a variable composition.	The compound has a fixed composition.
3.	A mixture shows the properties of its constituents.	Properties of a compound are totally different from those of its constituents.
4.	They do not have a fixed melting point, boiling point, etc.	They have a fixed melting point, boiling point, etc.
5.	The constituents can be separated easily by physical methods	The constituents can be separated only by chemical processes.



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FORMATION OF MIXTURES

- ❖ Various types of mixtures can be formed by mixing solid, liquid, and gaseous substances in different proportions.
- ❖ Mixtures may be any three states of matter i.e., solid, liquid or gas, depending on the physical states of its components



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TYPES OF MIXTURES

Sl. No	States of Components	Types of Mixtures	Examples
1	Solid + Solid	Heterogenous Homogenous	Sand and sugar Brass, Bronze
2	Solid + Liquid	Heterogenous Homogenous	Sand and Water Sugar in water
3	Liquid + Liquid	Heterogenous Homogenous	Oil in water Alcohol in water
4	Gas + Liquid	Homogenous	Aerated drinks
5	Gas + Gas	Homogenous	Pure air
6	Solid+ Gas	Heterogenous	Smoke



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VIDEO TIME

<https://youtu.be/Pe4KGVZNBfQ>



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HOME ASSIGNMENT

- Objective Types all
- Differentiate between Homogenous and Heterogenous Mixtures.
- Give examples of the following mixtures: -
 - Solid-solid mixture
 - Solid-Liquid mixture
 - Gas – liquid mixtures.



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THANKING YOU

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