

CHEMISTRY STUDY MATERIALS FOR CLASS 9

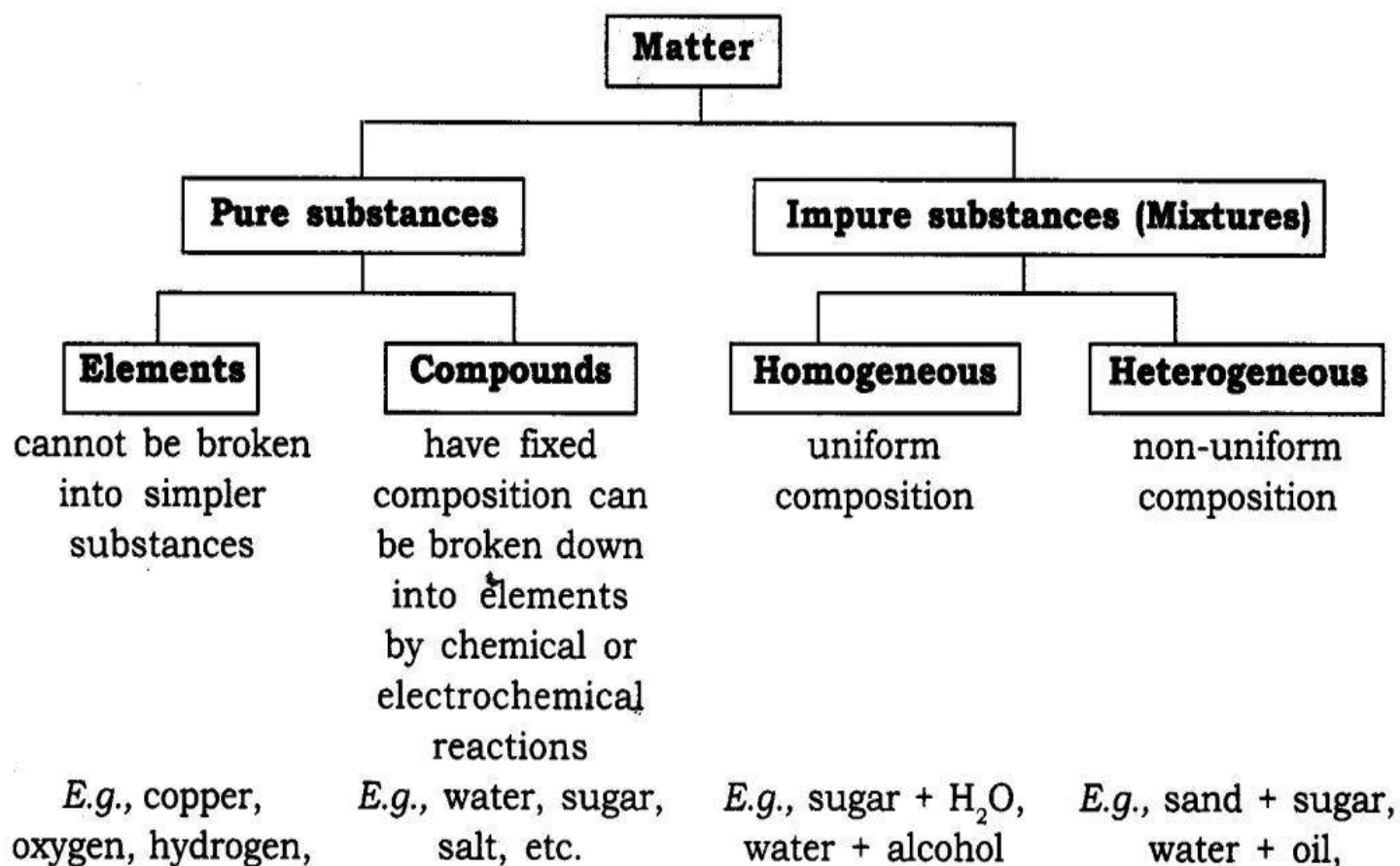
(NCERT based Keys Points of Chapter - 2)

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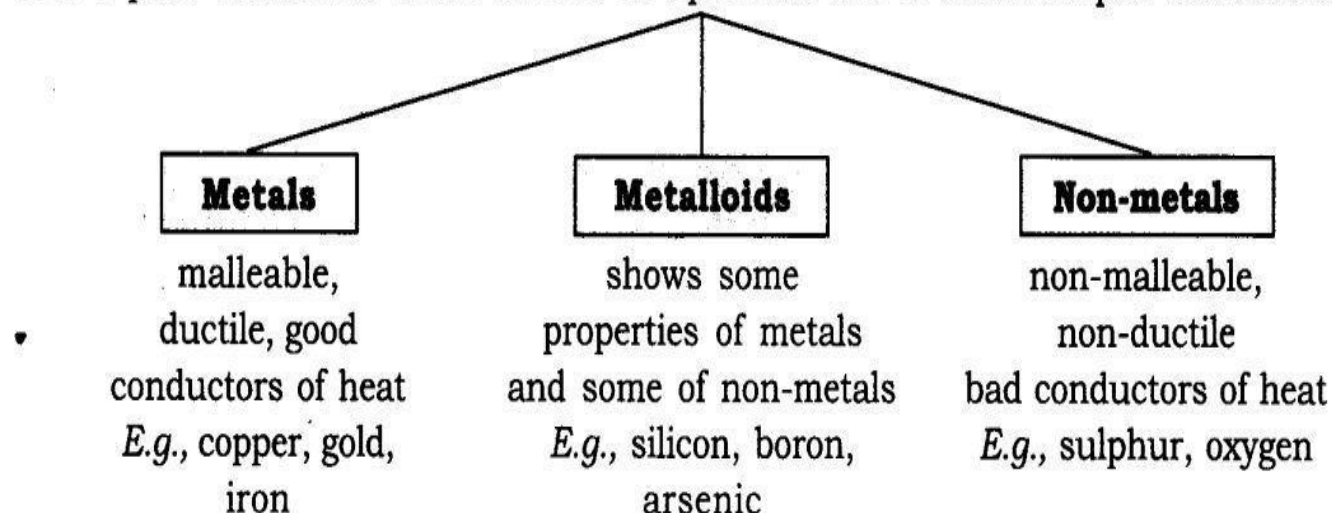
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Is Matter Around Us Pure

Facts that Matter



Elements
It is a pure substance which cannot be split into two or more simpler substances.



Compounds

The compound is a pure substance made up of two or more elements combined chemically in a definite ratio.

Characteristics:

- The properties of compound differ from those of its constituents.
- Compound has fixed melting point and boiling point.
- Compound is a homogeneous substance.
- Constituent elements can be separated by chemical process.

Mixtures

It is made up of two or more elements or compounds mixed in any ratio/proportion.

Properties:

- It may be homogeneous or heterogeneous.
- The properties of constituent substances are retained.
- No new compound is formed.
- Elements can be separated by simple physical processes.
- It does not have a fixed melting and boiling point.

Separation of Mixtures:

Type of Mixture	Separation method
1. Two immiscible liquids. Example, oil + water	By using separating funnel
2. Ammonium chloride + sand	Sublimation
3. Dyes in black ink. (One solvent different constituents)	Chromatography
4. Two miscible liquids. (Acetone + water)	Distillation
5. Solid particles insoluble from (solvent) liquid. (Milk + Cream)	Centrifugation
