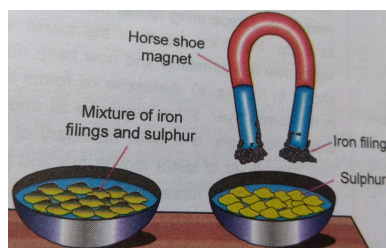


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|--|--|---|----------------------------------|
| Class | VII | Subject | CHEMISTRY |
| PD | 5 | Chapter-3 | ELEMENTS, COMPOUNDS AND MIXTURES |
| Recapitulation of the previous taught. | <ul style="list-style-type: none"> ➤ Difference between compounds and mixtures. ➤ Formation of mixtures. ➤ Types of mixtures on the basis of states of components. | | |
| Sub-Concepts | <ul style="list-style-type: none"> • Need for the separation of the components of mixtures. • Separation of solid – solid mixtures. | | |
| Teaching Aid To be used | Smart Class, PowerPoint presentation, classroom objects, charts. | | |
| Learning Outcome | <ul style="list-style-type: none"> ✓ The students will know of the need for the separation of the components of mixtures. ✓ They would know of the various methods of separation of solid- solid mixtures like: -Hand-picking, Winnowing, Magnetic separation, Gravitational method, Sublimation and Solvent Extraction method. | | |
| 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, What's your view on the need for the separation of mixture and the criteria used for it?</p> <ul style="list-style-type: none"> ➤ Vision to acquire knowledge of the need for the separation of the components of mixtures. ➤ They need to know of | <p>For Average</p> <ul style="list-style-type: none"> ➤ They would made familiar with the need for the separation of mixtures. ➤ They would know of the process of Hand-picking, Winnowing, Magnetic separation, Gravitational method, Sublimation and Solvent extraction method. | |

5. Magnetic Separation.



- o **MAGNETIC SEPARATION:** -This method is used when one of the components of the mixture is magnetic in nature. Example: Iron and Sulphur



6.Gravitational method

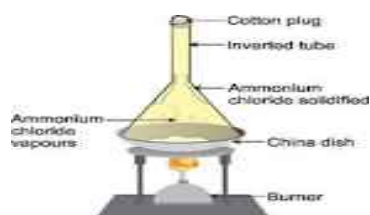
- o **GRAVITATIONAL METHOD:** -This method is used when one of the components is much heavier than water and other is much lighter than water. Examples:
- Mixture of sand, saw-dust put in water

7.Sublimation

SUBLIMATION: - Sublimation is the process in which solid directly changes to gaseous state.
Example: Salt and a sublimable solid such as ammonium chloride, can be



8.Solvent
Extraction
method.



- o **SOLVENT EXTRACTION METHOD:** -This method is used when one of the solid components is soluble in water. Example: - A mixture of sand and salt.

5.Home
Assignment

Exercise-II Q9 a, b, c, d

