

CH 2: IS MATTER AROUND US PURE

EXPERIENTIAL LEARNING:

Activity 1: Match the columns

Element		Two or more atoms combine in fixed ratio
Compound		Smallest particle
Ion		Only one kind of particles
Atom		Charged atom
Molecule		Only one kind of molecule

Activity 2: Elemental Tale

Students have to make up their own story using chemical elements.

Example:

Ram and Laxman were climbing the mountain, Ram quenched his thirst with some H_2O .

Laxman was very fond of [Au] _____ and [Ag] _____

A [He] _____ filled balloon was floating above them in the breeze. The heat of the sun was like a burning [P] _____.

CURIOSITY QUESTIONS:

Why do elements have symbols?

Answer guide:

Think about

How do elements get their symbols?

Why do some elements have symbols that do not resemble their names?

Activity 3: Rearrange the sentences and separate the mixture

- Students are given a mixture and the steps for the methods to separate the mixture are given in a jumbled form.
- Students have to rearrange the sentence and separate the mixture using given apparatus.

Rearrange the following sentences sequentially and separate a mixture of iron filings, salt, chalk powder and water

- Dissolve as much of the mixture as possible
- Add water and stir
- Filter the mixture so that the soluble salt will be obtained as the filtrate and the insoluble chalk powder and iron filings will be the residue on the filter paper
- Place the dry mixture into a beaker
- Dry out the filter paper to keep the dry chalk powder
- Use a magnet to attract and extract the iron filings from the dry mixture
- Pour the filtrate into an evaporating basin to evaporate the water and leave behind the salt

CURIOSITY QUESTIONS:

Can we separate mixture of iodine and Ammonium chloride?

Answer guide:

Think about

- What is sublimation?
- What is condensation?