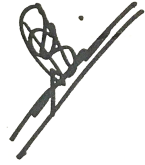


**Grade - 4**

**Subject- Physics**

**Chapter – 11, Lesson - 3**

**How do substances mix?**



Mrs. Ruksana and Mrs. Farhana

**Definition:**

**i. Mixture-** A mixture is a combination of two or more substances that keep their individual properties.

**ii. Solution-** When one or more substances are dissolved in another substance, it is called a solution.

**iii. Solute-** The substance that is dissolved in a solution is called a solute.

**iv. Solvent-** The substance that takes in or dissolves the other substance is solvent.

**Q/A**

1. What are the methods of separating mixtures?

Ans. Mixtures can be separated by hand picking, filtration, evaporation, using magnet, etc.

2. How can we separate a mixture of salt, sand and paper clips?

Ans. a) First, use a magnet to separate the paper clips.

b) Then put the mixture into water and stir well. Filter the solution to separate sand.

c) Evaporate the water to get salt.

3. What are the parts of a solution?

Ans. A solution has two parts: solute and solvent.

4. In a salt solution which is the solvent and which is the solute?

Ans. Salt is the solute and water is the solvent.

5. What are the factors that increases the solubility?

Ans. a) Temperature.

b) Stirring.

c) Crushing.

6. What is meant by solubility?

Ans. The ability of one substance to dissolve in another is called its solubility.

7. Name a few common solutions.

Ans. a) Sea water- many salts and water.

b) Steel – Iron and Carbon.

c) Air- many gases.

d) Fizzy drinks – liquid and gas.