

WELCOME TO THE ONLINE CLASS

SESSION NO.: 8

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 5

CHAPTER NAME: SOLIDS, LIQUIDS AND GASES

SUB TOPIC: SOLIDS IN WATER, LIQUIDS IN WATER, GASES IN WATER

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

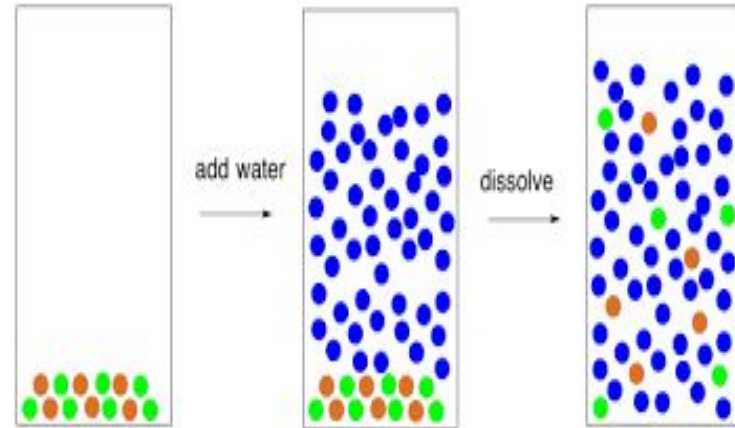
- Learn about the solubility of solids, liquids and gases in water
- Know about miscible and immiscible liquids

ACTIVITY

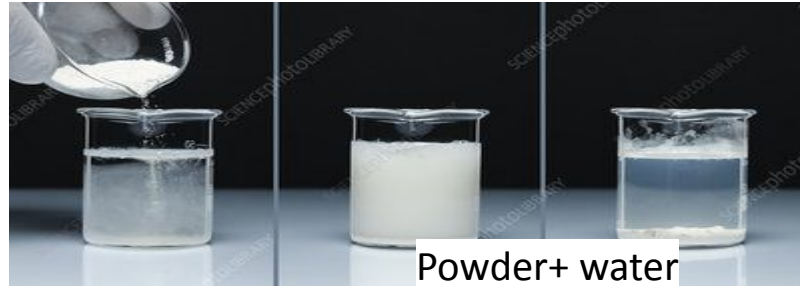
- **Mix different substances like sand, sugar, salt, rice, etc. in water and observe what happens in each case.**
- **Follow the same procedure for lemon juice, oil, milk, honey in water and observe what happens in each case as well.**

SOLIDS IN WATER

- Solids like sugar, salt, food colour, etc. completely dissolve in water, so they are soluble in water.
- Sand and face powder do not dissolve in water, so they are insoluble in water.



Sugar + Water = Sweet water



LIQUIDS IN WATER

- When one liquid completely mixes with another and appear as one liquid, then they are said to be miscible liquids.
E.g.: Honey is miscible in water
Milk is miscible in water
- When one liquid do not mix with another, then it is said to be immiscible liquids.
E.g.: Oil is immiscible in water
Oil is immiscible in milk



Lemon juice + water = Lemonade



Oil + water

GASES IN WATER

- Gases can also dissolve in water.
- E.g.: Oxygen, nitrogen, carbon dioxide, ammonia, etc. can dissolve in water.
- Air dissolved in water helps the aquatic animals and plants to live in water.
- Bubbles coming out from boiling water shows that air is dissolved in water.



GASES IN WATER

- Bubbles coming out of the cold drink is the carbon dioxide gas dissolved in it under pressure.



SUMMARY

- **Solids that dissolve in water are soluble in water.**
- **The liquids which completely dissolve in another liquid are called miscible liquids.**
- **The liquids which do not dissolve in another liquid are called immiscible liquids.**
- **Gases that dissolve in water help the aquatic animals and plants to live.**

READY FOR A
QUIZ ?

1. Liquids that dissolve in with each other.

Ans: Miscible liquids

2. Solid that dissolve in liquid.

Ans: Solute

3. Why a painter uses turpentine to remove paints off his hands?

Ans: Because paints are soluble in turpentine

4. What happens when water starts boiling?

Ans: Bubbles of gases that are dissolved in water comes out.

HOMework

- **Do the oral Q & A of page no. 46 in your notebook.**

C. Write short answers.

1. What is matter?

Ans: Anything that occupies space and has weight is called matter.

2. What are molecules?

Ans: A molecule is the smallest unit of a substance that has all the properties of that substance.

3. What are molecules made up of?

Ans: Molecules are made up of atoms.

LEARNING OUTCOME

The learner will be able to:

- **Learn about the solubility of solids, liquids and gases in water**
- **Know about miscible and immiscible liquids**

THANKING YOU
ODM EDUCATIONAL GROUP