



CLASS :3  
SUBJECT: SCIENCE  
TOPIC: CHAPTER: 8  
SOME PROPERTIES OF  
WATER  
DATE : 26/11/20

WORKSHEET NO. 1

GOOD MORNING CLASS

As we have already started with this chapter, today we will read about solutions and conditions that affect making of solutions and things that float and sink.

**SOLUTIONS---** A solution is formed when two or more substances mix together such that they are evenly distributed. Solutions where two or more substances are evenly distributed are known as homogeneous solutions.

A solution consists of a solute and a solvent. Q. What is a solute? A solute is defined as the substance that is to be dissolved. Q. What is a solvent? A solvent is the substance in which a solute is dissolved.

For example, if salt is added to water and is stirred, it dissolves completely in water. Such a solution is a homogeneous solution where the solute ( salt in this case) gets completely dissolved in water (solvent) to form a salt solution or salt water.

Salt + Water → Salt water  
(Solute) ( Solvent) ( Solution)

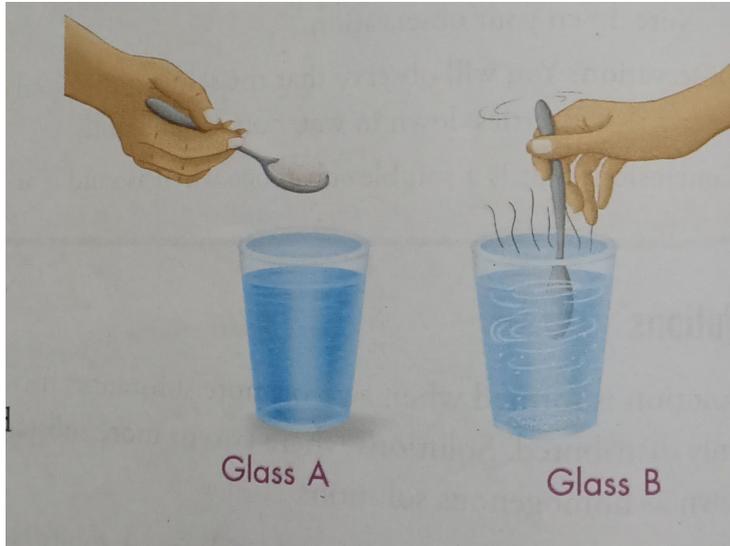
Water is called a universal solvent because it can dissolve many substances in it. The arrangement of particles in water is such that it allows water to become attracted to many other different types of substances.

**CONDITIONS THAT AFFECT MAKING OF SOLUTIONS**

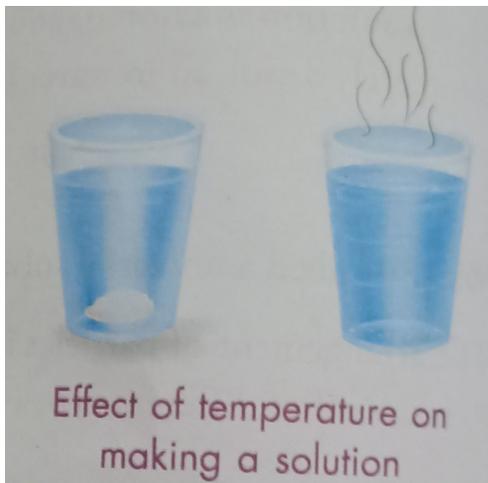
Some factors which affect the making of a solution are :

- Stirring of a mixture:

You must have seen an adult in ur house using a spoon to stir sugar in a cup of tea to quickly dissolve it. For example, if you take water and sugar in two glasses, glass A and glass B as shown in the figures, the sugar in water that is stirred with a spoon dissolves faster ( i.e., glass B)



- Size of solute particles:  
Generally the smaller the size of the solute particles, the faster they will dissolve in the solvent to make a solution.
- Temperature:  
Solute dissolves faster in solvents at a higher temperature. Take a glass of cold water and a glass of hot water. On adding sugar in both the glasses, sugar dissolves faster in the glass with hot water than in the glass with cold water.



## FLOATING AND SINKING OF OBJECTS IN WATER

Some objects float on water and some objects sink in water. This property of material to float in water is called flotation. Materials such as wood, rubber, plastic and dry leaves float on water whereas materials such as stones, pebbles, rocks and iron sink in water.

## ASSIGNMENTS

Check Point (Pg 98)

Q. Give one word for the following statements.

1. It consists of a solute and a solvent.

Ans. Solution

2. It is defined as the substance that is to be dissolved.

Ans. Solute

3. It is known as the universal solvent.

Ans. Water

Check Point (Pg 99)

Q. State whether the statements are true or false.

1. Sugar granules dissolve faster in hot water.

Ans. True

2. Sugar crystals dissolve slower than the powdered sugar.

Ans. True

3. Temperature of solvent does not affect the making of the solutions.

Ans. False

4. Stirring helps the substance dissolve faster to form a solution.

Ans. True

#### EXERCISES(Pg 102)

A. Tick the correct answer

1. Which of the following floats in water?

a.. Stone b. Iron c. Wood d. Pebbles

Ans. Wood

2. Which of the following dissolves in water?

a. Sand b. Chalk powder c. Mud d. Salt

Ans. Salt

3. Which source of water is salty?

a. River b. Rainwater c. Well d. Sea water

Ans. Sea water

4. Which of the following describes the taste of water?

a. Sweet b. Salty c. Tasteless d. Tangy

Ans. Tasteless

B. Fill in the blanks.

1. The mixture in which solid dissolves completely in the liquid is called... ..

Ans. Solution

2. Wood ..... on water while stone ..... in water.

Ans. Floats, sinks

3. The materials that get dissolved in water are called... ..

Ans. Soluble substances

4. A large part of the Earth's surface is covered with... ..

Ans. Water

C. State whether the statements are true or false.

1. Sugar dissolved in milk makes a solution.

Ans. True

2. Stone floats on water.

Ans. False

3. Water is a universal solvent.

Ans. True

4. Solute is a substance that gets dissolved.

Ans. True