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STUDY MATERIAL SCIENCE

CLASS-VI

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▸ Things around us

Solubility

Many solid substances dissolve in water, while others do not. Substances such as sugar, salt and baking soda, when added to water, completely disappear after stirring. These are soluble in water and dissolve to form a solution.

Water in which sugar is dissolved tastes sweet, while water with dissolved salt tastes salty. sea water is salty because it contains dissolved salt. The solubility of a substance can be increased by increasing the temperature of water. Substances dissolved in water can be extracted from the solution only by removing the water by boiling it. If substances, such as sand, pebbles, chalk powder and sawdust, are put in water, they remain visible even after they have been stirred in the water for a long time. These substances are insoluble and do not dissolve in water. Insoluble substances can be easily separated from water by filtering.

Water can also dissolve some gases. Water normally contains dissolved oxygen, which makes it possible for fish and other animals that live under water to survive. Aerated soft drinks have carbon dioxide dissolved in them which makes them fizzy. When sulphur dioxide and nitrogen oxide emitted from factories dissolve in raindrops, they produce acid rain, which damages stone sculptures and trees.