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SUMMARY

NCERT Class 6 Science Chapter 8: A Journey through States of Water

Overview

This chapter explores the three states of water solid, liquid, and gas and how water changes state. These transformations are explained with real-life examples, helping students understand evaporation, condensation, and water conservation.

Key Concepts

· States of Water

- Water exists in three physical states: solid (ice), liquid (water), gas (steam/vapour).
- Each state changes depending on temperature (heating or cooling).
- These changes are seen in daily life like snow (ice), rivers (water), steam (vapour).

· Changing States of Water

- Melting

- o Ice changes to water when heated.
- \circ Melting point = 0řC

- Boiling

- Water changes to steam rapidly at 100 °C.
- Fast conversion from liquid to gas.

- Evaporation

- Slow change from liquid to vapour at normal temperature.
- o Faster if theres more heat, air flow, or surface area.
- o Seen when clothes dry or puddles vanish.

- Condensation

- Vapour turns into liquid when cooled.
- Example: water droplets forming on a cold glass.

- Freezing

- Water becomes ice at 0řC.
- o Opposite of melting (liquid solid).

· Water Cycle in Nature

- Continuous movement of water is called the water cycle.
- Includes: Evaporation Condensation Precipitation (rain).
- Keeps Earths water moving and supports all life.

· Importance of Water Conservation

- Most water on Earth is not usable (salty or frozen).
- We must save and use water wisely.
- Rainwater harvesting and stopping pollution are vital methods.

Application-Based Questions Competitive Exams Focus

· Frequently Asked Concepts:

- What are the 3 states of water?
- Difference between evaporation and boiling
- Define melting, condensation, freezing
- How temperature changes water state
- Real-life examples of the water cycle

· Useful for:

- UPSC (CSAT): Everyday science, natural cycles
- SSC, TNPSC: General awareness water topics
- RRB, Police, State Exams: Water cycle, measurement basics
- Olympiads & Quizzes: Conceptual clarity + applications

Source: NCERT Class 6 Science Chapter 8

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