

Solids, Liquids and Gases

Think and answer: -

Why is it important to understand the states of matter in everyday life? Give examples to support your answer.

Describe two ways in which a gas can change into a liquid. Provide examples of each process.

Which state of matter typically has the highest density: solids, liquids, or gases? Explain your reasoning.

Explain what happens when you mix salt (a solid) into water (a liquid). What is formed? Is this a reversible process?

Describe what happens to a solid when it is heated until it becomes a liquid. What is this process called?

Describe a scenario where ice (solid water) changes into water (liquid water) and then into steam (water vapor, a gas). What are the physical changes occurring in each step?

Explain why metal expands when heated and contracts when cooled. How does this property of metals affect their use in everyday objects?

How can changes in the states of matter (solids, liquids, and gases) affect the environment? Provide examples to support your answer.

Compare how solids, liquids, and gases expand when heated. Provide an example for each state.