



Science Toolkit: Grade 6 Objective 4.C.1.c

Student Handout: Science: Grade 6 Objective 4.C.1.c

Standard 4.0 Chemistry

Topic C. States of Matter

Indicator 1. Provide evidence and examples illustrating that many substances can exist as a solid, liquid, or gas depending on temperature.

Objective c. Analyze data gathered and formulate a conclusion on the effects of temperature change on most substances.

Selected Response (SR) Item

Question

The data table below includes information about how temperature affects the state of matter for three substances.

HOW TEMPERATURE AFFECTS STATES OF MATTER

Substances	State of Matter at Room Temperature (22°C)	State of Matter when Heated
Butter	Solid	Liquid (29°C)
Sugar	Solid	Liquid (186°C)
Water	Liquid	Gas (100°C)

The information in the table indicates that

- A. the atoms in matter slow when heated
- B. temperature physically changes matter
- C. temperature chemically changes matter
- D. the atoms in matter change shape when heated

Correct Answer

- B. temperature physically changes matter

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