GRADE 6 SCIENCE

Changes of State

Name: Date:

INQUIRY

Korean bingsu (shaved ice dessert) melts in minutes on a Nanjing summer day. Can you reverse the change?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Melting point	Temperature where solid becomes liquid (0°C for water).
Boiling point	Temperature where liquid becomes gas (100°C for water).
Reversible	Can be changed back (e.g. ice → water → ice).

Part A — Heating Curve

1. Describe what happens to ice as it is heated from -20°C to 120°C. Where does temperature pause? Why? [4 marks]

Part B — Reversible vs Irreversible

2. Classify as reversible or irreversible: (a) melting chocolate (b) burning paper (c) boiling water (d) cooking an egg (e) freezing juice. [3 marks]

3. A German baker bakes bread. Is this a reversible change? Explain using particle theory. [3 marks]