

Investigating Melting and Freezing

Name _____ Date _____

Today we will observe ice melting and discuss how liquid water freezes.

Word Bank:

solid • liquid • heat • melting • freezing

Part 1: Ice Cube Melting Investigation

Directions

Place one ice cube in your cup of room-temperature water. Observe the ice cube every three minutes and record your observations in the log below. Remember: do not taste the ice or water, and use a paper towel to clean up any spills immediately.

Observation Log

Time	Quick Sketch (What it looks like)	My Observations (What do you see?)
0 min (Start)		
3 min		
6 min		
9 min		
12 min		
15 min (End)		

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Part 2: Melting vs. Freezing Comparison

Comparison Chart

Process	Starting State	Ending State	What Happens to Heat?
Melting (Ice to Water)	Solid	Liquid	Heat is _____ (added/removed)
Freezing (Water to Ice)	Liquid	Solid	Heat is _____ (added/removed)

Part 3: Puddle Predictions

1. Prediction 1: Draw and describe what happens to a frozen ice puddle on a warm, sunny afternoon.

What process is this? _____

2. Prediction 2: Draw and describe what happens to a puddle of liquid water on a freezing cold winter night.

What process is this? _____

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Melting & Freezing Exit Ticket

3. When liquid water is placed in a freezer, it turns into solid ice. What process is happening?

- ☐ A Melting (adding heat)
- ☐ B Freezing (removing heat)
- ☐ C Boiling (adding heat)
- ☐ D Evaporating (removing heat)

4. Complete the sentence frames to explain how heat causes water to change states:

- Adding heat causes solid ice to _____ into liquid water.
- Removing heat causes liquid water to _____ into solid ice.
