

The Case of the Missing Mass

Properties of Matter & Conservation of Mass

Name: _____

Date: _____

Circle the best answer for 1 and 2. Answer 3 in complete sentences.

1. A sealed bag contains 50 g of ice. The ice melts. What is the mass now?

- (A) 25 g
- (B) 50 g
- (C) 100 g
- (D) 0 g

2. Which is evidence of a chemical change?

- (A) Ice cracking
- (B) Paper folding
- (C) Bubbles forming when two liquids mix
- (D) Water boiling

Read: Jada put 100 g of water and 20 g of salt in an OPEN bowl. She stirred until the salt disappeared. Then she left it in the sun for 3 days. The bowl then held 20 g of dry salt crystals and no water.

3. Did the water's matter disappear? Write a claim, evidence, and reasoning.

Use Claim-Evidence-Reasoning: Claim, Evidence, Reasoning.

The Case of the Missing Mass: Exit Ticket

Total: 5 points. Mastery: 4 or more.

#	Answer	Points
1	(B) 50 g	1 point
2	(C) Bubbles forming when two liquids mix	1 point
3	Claim: The water did not disappear; it evaporated into the air. Evidence: The bowl had 120 g at the start and only 20 g of salt at the end, so 100 g left the bowl. Reasoning: The bowl was open, so the water changed from liquid to gas (a physical change) and escaped. Matter is conserved; it is still in the air as water vapor.	3 points: Claim: the water evaporated (still exists); Evidence: uses the numbers 120 g -> 20 g; Reasoning: open system, gas escaped, conservation of mass.