Can It Change Back?

Find evidence of changes that can and cannot be undone.

2.4 "Provide evidence that some changes in matter caused by heating or cooling can be reversed and some changes are irreversible."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline words that show cooling undid a change. Circle words that show cooling did not undo a change.

Changes Around Lunch

1. At the class snack table, a cup held an ice cube. The warm room made the ice melt into water. Mia put the cup in the freezer. By the next day, the water was solid ice again.

2. Leo left a piece of chocolate in the sun on a hot day. It turned soft and runny. He moved the chocolate to a cool place. Soon it was hard again. It was still chocolate.

3. At lunch, a cook heated a raw egg in a pan. The clear, runny egg white turned firm and white. The egg cooled on a plate, but the white stayed firm. It did not turn clear and runny again.

2 ANSWER WITH EVIDENCE

Use the passage

1. What happened after Mia put the melted ice in the freezer? How does that show the change was undone?

2. What happened when Leo cooled the soft chocolate? Could its change be undone?

3. What happened when the cooked egg cooled? Did cooling undo its change?

3 YOUR TURN

Your own words

Choose a food not in the passage that changes when it is heated or cooled. Write two sentences: Tell what changes, then use what happens when it cools or warms to show whether the change can be undone.

Can It Change Back?

PART 1 · READ AND MARK

Underline words that show cooling undid a change. Circle words that show cooling did not undo a change. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	What happened after Mia put the melted ice in the freezer? How does that show the change was undone?	**The water became solid ice again, so cooling undid the melting.**
2	What happened when Leo cooled the soft chocolate? Could its change be undone?	**The chocolate became hard again. Yes, cooling undid the change.**
3	What happened when the cooked egg cooled? Did cooling undo its change?	**The egg white stayed firm. No, cooling did not make it clear and runny again.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

Warm butter melts into a liquid. In the fridge, the butter gets hard again, so cooling can undo the melting.

For the marking job, accept the ice becoming solid again and the chocolate becoming hard again as evidence of changes being undone. Accept the egg white staying firm as evidence of a change that cooling did not undo.