

Melt Test Detectives

Plan a fair test and collect data.

2.1.b.i “planning and carrying out investigations with guidance, plan and conduct simple investigations to produce data”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the question Mina investigated. Number 1, 2, and 3 beside the three sentences that begin First, Next, and Last, then circle all the conditions that stayed the same. These marks show how a plan can produce useful data.

Ice Cube Test

- ① Mina wondered, “Does sunlight change how fast ice melts?” With her teacher, she planned a fair test. They chose two same-size ice cubes, two matching plates, and sunny and shady places. They decided to check each cube after ten minutes.
- ② First, Mina put one plate in sun and one in shade. Next, she used a ruler to measure the height of each ice cube after ten minutes. Last, she wrote both measurements in a chart.
- ③ Mina repeated the test two more times. Each time, she used same-size cubes, matching plates, and ten minutes. Her chart showed that the sunny ice cube was shorter each time. The data helped her answer her question.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What question did Mina investigate?

2 What data did Mina write in her chart?

3 What three conditions stayed the same each time?

3 YOUR TURN _____ Your own words

Plan a fair test to find out whether a wet paper towel dries faster by a sunny window or in a shady spot. Fill one row for each place. Write what will stay the same and what data you will collect.

PLACE	WHAT STAYS THE SAME	DATA I WILL COLLECT

PART 1 • READ AND MARK

Underline the question Mina investigated. Number 1, 2, and 3 beside the three sentences that begin First, Next, and Last, then circle all the conditions that stayed the same. These marks show how a plan can produce useful data. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What question did Mina investigate?	Does sunlight change how fast ice melts?
2	What data did Mina write in her chart?	She wrote the height measurements of both ice cubes after ten minutes.
3	What three conditions stayed the same each time?	She used same-size ice cubes, matching plates, and ten minutes.

PART 3 • YOUR TURN (SAMPLE ANSWER)

PLACE	WHAT STAYS THE SAME	DATA I WILL COLLECT
Sunny window	Two matching paper towels, 2 spoonfuls of water, and the same start time	Minutes until the towel is dry
Shady spot	Two matching paper towels, 2 spoonfuls of water, and the same start time	Minutes until the towel is dry

Accept equivalent wording for Mina's question, measurements, and controlled conditions. For the open task, accept any reasonable shared conditions and a measurable data choice, such as minutes until dry.