Checking Melting After a Heater Switches Off

Scoring guide · one credit per question · review written work against each rubric

Checking Melting After a Heater Switches Off

Question 1

Choice (3)

One additional gram melts after electrical input stops.

Question 2

One gram melts and the model requires 30 J/g, so the sample receives 30 J.

Question 3

The heater has stopped supplying energy, but the warmer backing still has thermal energy. It transfers 30 J to the sample. That transfer supplies the phase change.

Question 4

Melting 0.5 g takes 15 J. The repeat transfers half the energy of the original 30 J interval.