Checking a Reaction With a Steady Intermediate

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

Checking a Reaction With a Steady Intermediate

Question 1

Choice (2)

B is four at each of the last three readings.

Question 2

Four A disappear, so four enter B. Four C appear, so four leave B. The two changes balance in B.

Question 3

In the original graph, A drops by four and C rises by four. In the cooled repeat, A drops by two and C rises by two. Both steps proceed less in the cooled interval, but their changes still balance in B.

Question 4

The cooled trial has six C at 15 seconds, two fewer than the original at that time. All 12 particles eventually become C, so cooling reduces the amount formed by 15 seconds and both trials have the same final amount.