Checking a Cooled Solution With a Seed

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

Checking a Cooled Solution With a Seed

Question 1

Choice (1)

P still has eight grams dissolved after one minute, above the five-gram equilibrium limit.

Question 2

P is still at eight grams dissolved, so zero grams have become solid. Q has five grams dissolved, so 8 − 5 = 3 g have become solid.

Question 3

Both trials reach five grams dissolved at ten minutes. The seed changes how soon solid appears in these records. The final dissolved amount is the same.

Question 4

The four grams plus the small seed amount are below the five-gram capacity. The seed can dissolve completely under the model.

Question 5

Use two fresh solutions with the same starting dissolved mass, water amount, and temperature. Add the solute seed to one and the bead to the other. Compare how quickly the dissolved mass begins to fall. If it also falls early with the bead, the bead can start growth in the tested model.