Checking Oxygen Limits in a Warming Tank

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

Checking Oxygen Limits in a Warming Tank

Question 1

Choice (3)

Multiply 8 mg/L by 2.0 L to obtain 16 mg.

Question 2

Initially it contains 2.0 × 10 = 20 mg. At 25 °C it holds 16 mg, so 4 mg leaves the water.

Question 3

The 10 °C limit corresponds to 20 mg, but the sealed model has only 12 mg and no source of more oxygen. It remains below the limit at 6 mg/L.

Question 4

Cooling raises the amount that could dissolve if oxygen were supplied. It does not add oxygen, so the amount remains 12 mg in the sealed container.