Dynamic Equilibrium Worksheet

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

Dynamic Equilibrium

Question 1

Choice (3)

Forward and reverse changes continue, with equal rates and no net change in amounts.

Question 2

Yes. Equilibrium requires equal forward and reverse rates. The amounts can remain constant at different values.

Question 3

Choice (1)

The forward reaction produces product faster than the reverse reaction consumes it.

Question 4

The gas stays in the system and can participate in the reverse reaction. The team can compare both directions without losing gaseous material.

Rates in a Closed Model

Question 5

Choice (3)

Both rates reach 7 units per minute at 6 minutes and stay there over the rest of the graph.

Question 6

The graph gives 9 units per minute forward and 6 units per minute reverse. The difference is 3 units per minute.

Question 7

Both reactions continue. Both rates are 7 units per minute at 8 minutes.

Question 8

Choice (2)

At 2 minutes the forward rate is 11 units per minute and the reverse rate is 4, so Y is formed faster than it is consumed.