Tracking Neon Isotopes Between Model Cells

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

Tracking Neon Isotopes Between Model Cells

Question 1

Choice (2)

Only B initially contained neon-22. Its appearance in A shows that at least some atoms moved from B to A.

Question 2

Neon-20: 20 from A to B and 0 from B to A. Neon-22: 0 from A to B and 10 from B to A. The minimum total is 30 crossings.

Question 3

It shows that A loses 10 atoms overall and B gains 10. It would give the same totals for a one-way transfer of 10 from A to B, because it cannot see the offsetting movement of the other isotope.

Question 4

Both have atomic number 10 and therefore 10 protons. Neon-20 has 10 neutrons and neon-22 has 12.