Tracking Carbon Inside a Leaf Model

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

Tracking Carbon Inside a Leaf Model

Question 1

Choice (2)

Q receives two units while P receives six.

Question 2

P uses 10 + 6 − 10 = 6 units. Q uses 10 + 2 − 6 = 6 units. The two modeled uses match.

Question 3

Q’s internal store falls from ten to six, supplying four units in addition to the two from air. Both trials use six units. The smaller transfer is offset by depletion of the internal store.

Question 4

Respiration adds three units to the store. Photosynthesis uses 10 + 2 + 3 − 6 = 9 units. It must remove the three extra units along with the six that would otherwise account for the same readings.