Finding Usable Carbon in a Model Algae Test

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

Finding Usable Carbon in a Model Algae Test

Question 1

Choice (3)

Each trial has 10 total carbon units. P has 6 CO_2 carbon units, compared with 2 in Q.

Question 2

The trials start with equal total carbon but different amounts of the form available directly to algae. P has more CO_2 carbon and releases 5 oxygen units, versus 2 in Q.

Question 3

The changed Q should approach P’s 5 units because it now has the same amount of directly usable CO_2 carbon under the same light, temperature, and algae conditions.

Question 4

Measure total dissolved carbon and the part present as dissolved CO_2. High total carbon combined with a low CO_2 fraction would support that interpretation.