Tracking Light Energy in Two Leaf Trials

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

Tracking Light Energy in Two Leaf Trials

Question 1

Choice (3)

The supplied model accounts for absorbed energy as heat plus energy stored in products.

Question 2

P stores 60 − 40 = 20 units. Q stores 50 − 35 = 15 units.

Question 3

Both trials receive 80 units. P absorbs 60 and transfers 40 as heat, leaving 20 stored. Q absorbs 50 and transfers 35 as heat, leaving 15 stored. Equal arriving energy can give different absorbed amounts and different stored amounts.

Question 4

The model gives 50 − 20 = 30 units of heat, five fewer than Q. The third trial stores five more units even though both absorb 50.