Spreading Light Across Two Leaf Patches

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

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Question 1

Each patch has four uptake units at four light units. The two patches together give eight uptake units.

Question 2

Choice (2)

The patch at eight light units gives four uptake units, and the unlit patch gives zero in the stated model. The total is four.

Question 3

Both arrangements supply eight light units. The graph rises to four uptake units at four light units and stays at that level between four and eight. With eight and zero, the first patch gives four uptake units and the second gives zero. With four and four, each patch gives four uptake units and the total is eight.

Question 4

The patch at six light units gives four uptake units and the patch at two gives two, for a total of six. That is higher than the eight-and-zero arrangement and lower than the four-and-four arrangement.