Checking a Light Pulse on Two Card Areas

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

Checking a Light Pulse on Two Card Areas

Question 1

Choice (1)

J delivers 24/6 = 4 units/cm². K delivers 24/12 = 2 units/cm². Only J reaches the threshold.

Question 2

The energy is distributed across different areas. K delivers half as much energy per square centimeter as J, even though its total energy and wavelength match.

Question 3

Ten square centimeters at 3 units/cm² requires 10 × 3 = 30 energy units.

Question 4

For example, test 29 and 30 units on matched cards. Keep the area at 10 cm², the wavelength and energy distribution the same. A color change at 30 but not 29 would support the predicted threshold.