Comparing Light Bands With the Same Peak

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

Comparing Light Bands With the Same Peak

Question 1

Choice (2)

P gives eight units in the absorbing bands. Q gives four plus eight plus four, for 16 units.

Question 2

Only the 490 nm band is unabsorbed. P supplies four units there and Q supplies two.

Question 3

Both have eight units at 450 nm. Q also supplies four at 430 nm and four at 470 nm, which the coating absorbs. Q therefore transfers 16 absorbed units while P transfers eight.

Question 4

Both now transfer eight absorbed units. The two extra absorbing bands from Q no longer reach the coating.