# Distinguishing Molecule Turning From Ion Motion

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

### Distinguishing Molecule Turning From Ion Motion

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### Question 1

Choice (1)

The separate ions travel in opposite directions in Q. The neutral molecules in P turn without carrying charge from one plate toward the other in the model.

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### Question 2

P responds by turning molecules but carries no charge between plates in the model. Q carries charge through movement of separate ions.

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### Question 3

P molecules turn to orient their opposite ends toward the newly charged plates. Each kind of ion in Q reverses its direction of motion.

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### Question 4

The positive and negative partial charges in a P molecule still balance. Turning the molecule changes its orientation without changing its electron or proton count.