

Competition Corner: Arrow-Model Audit

g12_u01_w03

Original fictional diagram challenges. No reaction or procedure is implied.

Challenge 21. A fictional arrow card has a lone-pair arrow toward a positively labeled carbon and a second arrow from a carbon-halogen bond toward the halogen. List the bookkeeping roles of both arrows, then name three checks/limitations that prevent the diagram from proving a real pathway.

Challenge 22. Two fictional models conserve atoms and charge but assign different first electron-pair moves. Give two kinds of supplied evidence that could distinguish their plausibility. Explain why even favorable evidence would not automatically prove one complete mechanism.