

Competition Corner: 3-D Model Limits

g12_u01_w02

Original fictional representation challenges. No substances or use claims are implied.

Challenge 21. Fictional Card A has two tetrahedral centers and its mirror card reverses both wedge-dash patterns. Explain the representation relationship that is plausible, what comparison is still needed to confirm it, and why this does not identify a real-world effect.

Challenge 22. A fictional Newman card lists three conformers with relative energies 0.0, 2.5, and 4.0 units. Rank them, state one explanation consistent with torsional/steric models, and name two missing conditions that prevent a population claim.