Reading a Molecule From Two Views

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

Reading a Molecule From Two Views

Question 1

Choice (3)

Three spokes are visible. A bond aligned with the line of sight can be hidden in the central spot.

Question 2

The flat BF_3 model has three bonds. The CH_4 model has four, but looking directly along one can hide that one and leave three visible.

Question 3

The unknown is CH_4 because it has four bonds. Tilting reveals the bond that previously projected onto the center. BF_3 would still have only three bonds.

Question 4

Show C with four single bonds to H. Mark one C–H bond as pointing toward the viewer. Accept equivalent orientations and a labeled wedge or written direction.