# Drawing a New Bond From a Lone Pair

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

### Drawing a New Bond From a Lone Pair

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### Question 1

Choice (3)

The supplied rule uses the N lone pair to form a bond from nitrogen to boron.

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### Question 2

Show a central N–B single bond, with three N–H and three B–F single bonds. Accept any orientation. Lone pairs on F need not be drawn.

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### Question 3

B has three bonded neighbors before the change and four afterward because N is added to its connections. The supplied shape rule gives the out-of-plane arrangement.

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### Question 4

The pair is shared in the new N–B bond. It is no longer a lone pair on N, but both electrons remain in the combined product.