

Table 12.4 | Arrangements of Electron Pairs and the Resulting Molecular Structures for Two, Three, and Four Electron Pairs

Number of Electron Pairs	Bonds	Electron Pair Arrangement	Ball-and-Stick Model	Molecular Structure	Partial Lewis Structure	Example Ball-and-Stick Model
2	2	Linear		Linear	A—B—A	
3	3	Trigonal planar (triangular)		Trigonal planar (triangular)	<pre> A A—B—A </pre>	
4	4	Tetrahedral		Tetrahedral	<pre> A A—B—A A </pre>	
4	3	Tetrahedral		Trigonal pyramid	<pre> A A—B—A A </pre>	
4	2	Tetrahedral		Bent or V-shaped	<pre> A A—B—A A </pre>	