
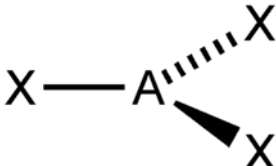
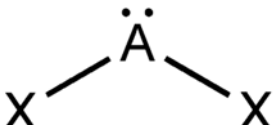
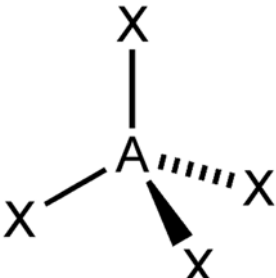

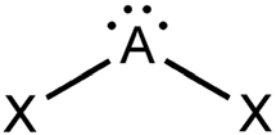
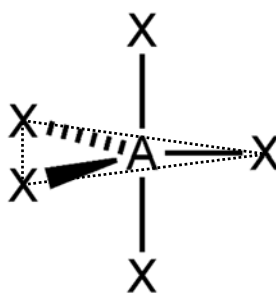

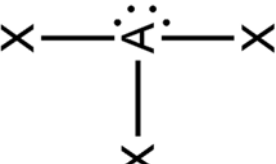
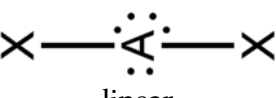
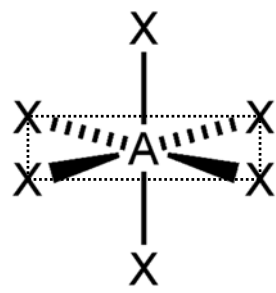
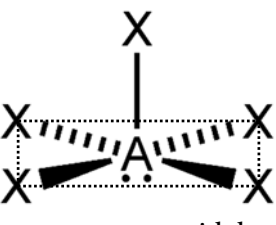



# Annex: Shapes of Molecules

e.p.	Basic shape	l.p.	Shape	$\angle$	P	E.g.
2	 linear	0	(same)	$180^\circ$	N	$\text{CO}_2$
3	 trigonal planar	0	(same)	$120^\circ$	N	$\text{BF}_3$
		1	 bent	$119^\circ$	Y	$\text{SnCl}_2$
4	 tetrahedral	0	(same)	$109.5^\circ$	N	$\text{CH}_4$
		1	 trigonal pyramidal	$107^\circ$	Y	$\text{NH}_3$
		2	 bent	$104.5^\circ$	Y	$\text{H}_2\text{O}$
5	 trigonal bipyramidal	0	(same)	$120^\circ$ on plane; $90^\circ$ on perpendicular axis	N	$\text{PCl}_5$
		1	 distorted tetrahedral	$119^\circ$ on plane; $<90^\circ$ on perpendicular axis	Y	$\text{SF}_4$
		2	 T-shaped	$<90^\circ$ on perpendicular axis	Y	$\text{ClF}_3$
		3	 linear	$180^\circ$	N	$\text{XeF}_2$
6	 octahedral	0	(same)	$90^\circ$	N	$\text{SF}_6$
		1	 square pyramidal	$<90^\circ$	Y	$\text{IF}_5$
		2	 square planar	$90^\circ$	N	$\text{XeF}_4$