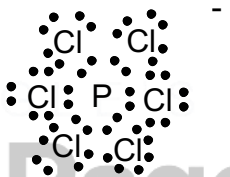
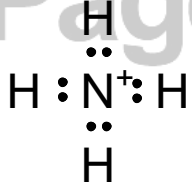
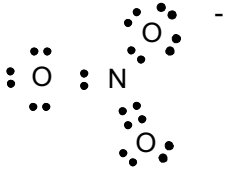
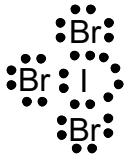
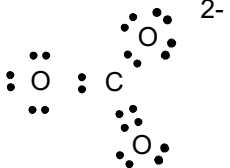


AP WORKSHEET 02ABCDEFG: ANSWERS

1. A strong Coulombic attraction between a positively charged cation and a negatively charged anion.
- 2.

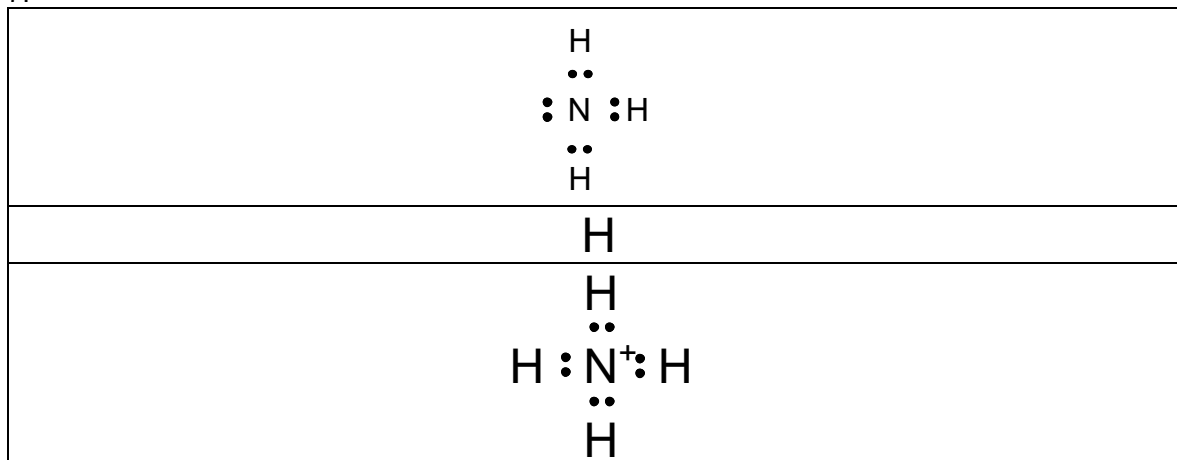
Mg^{2+}	NO_3^-
Al^{3+}	SO_3^{2-}
Al^{3+}	N^{3-}
Na^+	P^{3-}
NH_4^+	NO_2^-

3. A shared pair of electrons between two atoms
4. Non-metals
- 5.

Molecule or ion	AROUND CENTRAL ATOM					Lewis dot structure	Different molecule or ion with same atom geometry
	# of Bonding pairs (Count multiple bonds as one pair)	# of Lone pairs	Atom geometry	Electron pair geometry	Hybridization		
PCl_6^-	6	0	Octahedral	Octahedral	sp^3d^2		SF_6
NH_4^+	4	0	tetrahedral	tetrahedral	sp^3		CH_4
NO_3^-	3	0	Trigonal planar	Trigonal planar	sp^2		BF_3
IBr_3	3	2	T-Shaped	Trigonal Bipyramid	sp^3d		ICl_3
CO_3^{2-}	3	0	Trigonal Planar	Trigonal Planar	sp^2		BCl_3

6. It possesses a lone pair of electrons

7.



8. Aluminum chloride, beryllium chloride

9. Carbon dioxide, sulfur dioxide

10.

	Yes	No
	Yes	No
	Yes	Yes
	No	No