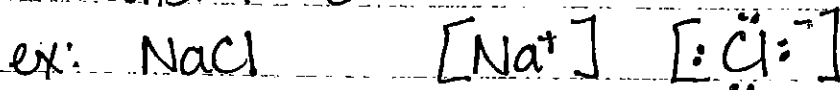


Lewis Structures

one dot = one val e^- = column #

Ionic
Cpds

• transfer e^-

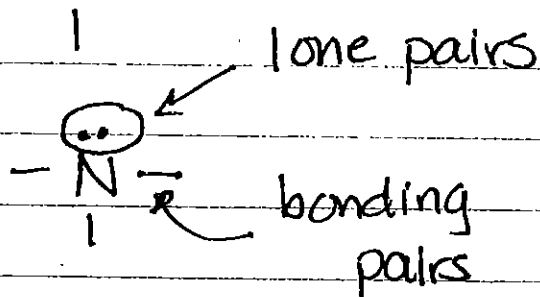
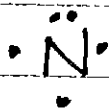
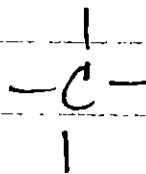
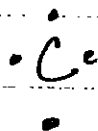


$[]$ means gained or lost e^-

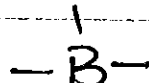
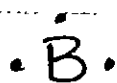
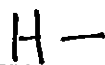
Covalent
Cpds

- Share e^- to get a full val shell
- a line will represent a shared pair
- most atoms want 8 val e^-
- exceptions H(2), Be(4), B(6)

ex:



except:

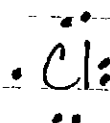


Lewis Structures

Def:

- A way to show how valence e^- are transferred or shared during bonding
- one dot = one val e^-

ex:



most elements want 8 val e^-

exceptions

	<u>Has</u>	<u>Wants</u>
H	1	2

Be	2	4
----	---	---

B	3	6
---	---	---

To Draw

- (1) Determine what each element wants (e^-)
- (2) " " " " has (e^-)
- (3) Subtract (wants - has)
- (4) Divide by 2 to get bonds

ex:



	<u>Wants</u>	<u>has</u>
C	8	4
H	4(2)	4(1)
	16	8 = 8
	$\frac{8}{2}$	= 4 bonds

