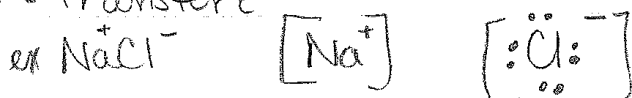


3005

ionic
cpds

one dot = one val e- = col #

- transfer e-



[] mean gained or lost e^-

try MgO

valent
cops

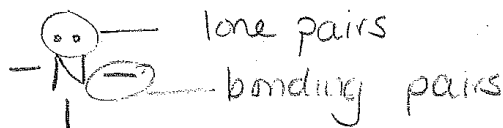
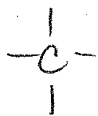
- share e^- to get a full valence shell

- a line will rep a shared pair of e-

- most atoms want 8 val e-

- exceptions $H(2)$, $Be(4)$, $B(6)$

MX:



except



want 2 val e-



wants 4



11 6

VSEPR Theory

Def:

V valence
S shell
E electron
P pair
R repulsion

} e⁻ pairs want to be as far away from each other as possible

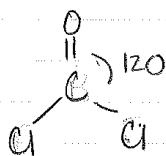
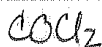
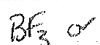
Theory

So

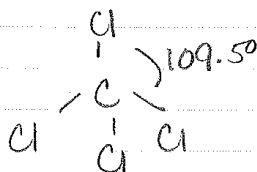
See Picture / show models



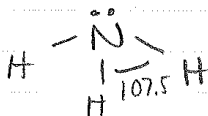
Linear



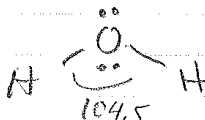
trig planar



tetrahedral



trig pyramid



Bent

* Predict Shapes on 8-1 R+R