
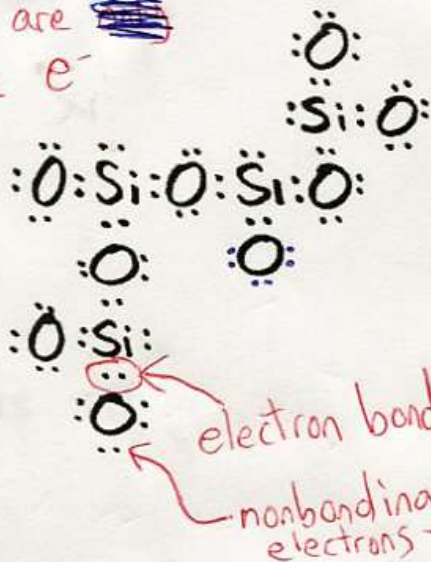


PURPOSE WHAT HOLDS
GLASS TOGETHER?

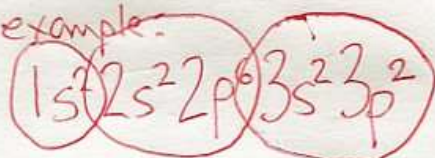
THIS IS THE ATOMIC STRUCTURE
OF GLASS

(#) these are 
Valence e⁻



#2 Valence e^- are the e^- in the outermost shell.

example:



there are four e^- in the valence shell

#3

Electron bonds are formed from shared pairs of e^- . They are shown between two atoms.

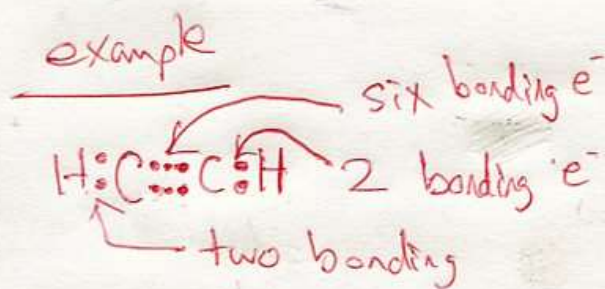
example



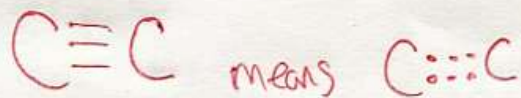
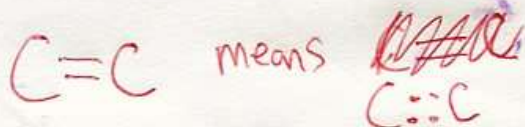
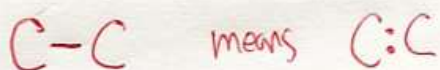
bonding e^-
valence e^- : two
bonding e^- : two
nonbonding e^- : zero



formula F_2
valence e^- 14
bonding e^- 2
nonbonding e^- 12



#4 Shorthand



In shorthand, each line
represents a pair
of e^-