

Paired Electrons

4A: 0 pair 5A: 1 pair 6A: 2 pair 7A: 3 pair 8A: 4 pair

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 3H – Determining Covalent Bonds (Part 2)

20 Points

Draw the molecular formulas based on the bonding procedures given in class.

COCl₂ 4A: 0 pair 6A: 2 pair 7A: 3 pair adds 2 needs 2 — = 2 ∞ = 2 need 8e⁻	H₂CS HNB₂ 6A H H — C — S only needs 2e⁻ need 2 H needs only 2e⁻	SFC1 Cl S F
SiNI = = 4e⁻ ≡ = 6e⁻ two — = 4e⁻ pair on opposite side of — (4e⁻) (4e⁻) (8e⁻) (8e⁻) (8e⁻)	OC1Br Add pair e⁻ after bonds one pair e⁻ top and bottom	COCl₂ Cl O C Cl
CPF P C F	NBr₃ Br Br N Br	CSCl I S C Cl