

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 3E – Single Covalent Bonding

20 Points

Complete the following covalent molecules with single bonds using structural formulas

CH ₄ (4 single C-H bonds)	H ₂ O (2 single O-H bonds)	NH ₃ (3 single N-H bonds)
H H C H H	H H O	H H N H
CBr ₄ (4 single C-Br bonds)	H ₂ S (2 single H-S bonds)	PI ₃ (3 single P-I bonds)
Br Br C Br Br	H H S	I I P I
CCl ₄ (4 single C-Cl bonds)	SF ₂ (2 single S-F bonds)	PBr ₃ (3 single P-Br bonds)
Cl Cl C Cl Cl	F F S	Br Br P H
CF ₂ H ₂ (2 single C-F bonds) (2 single C-H bonds)	HSI (1 single H-S bond) (1 single S-H bond)	HNBr ₂ (1 single H-N bond) (2 single H-Br bonds)
H F C H F	H I S	Br Br P H

