

Name: _____ Date: _____

CHEMISTRY **Covalent Compounds and Electrons**

In the first column type the number of atoms in the covalent compound. In the second column, type the total number of VALENCE electrons in the compound (all electrons: shared and unshared electrons). In the third column, determine the total number of possible chemical bonds in the compound.

Compound	Number of Atoms	Total Valence Electrons	Total possible of chemical bonds
H₂			
Cl₂			
O₂			
N₂			
H₂O			
SF₂			
CH₄			
NH₃			
PF₃			
CCl₄			
C₂H₆			

Compound	Number of Atoms	Total Valence Electrons	Total possible of chemical bonds
C₂H₄			
C₂H₂			
CH₃OH			
CH₂O			
CH₃CO₂H			

Total possible chemical bonds: Total number of unpaired valence electrons of the individual atoms divided by 2.