
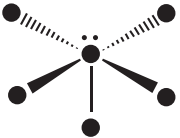
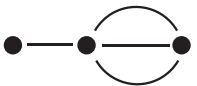


Laboratory Report

Data Table A.

Name and Shape	Molecular Formula	Valence Electrons	Lewis Structure
Boron Trichloride			
Methane			
Ethylene	C_2H_4		
Ammonia			
Ammonium Ion 			
Hydrogen Sulfide			

Name and Shape	Molecular Formula	Valence Electrons	Lewis Structure
Sulfur Trioxide			
Acetylene	C ₂ H ₂		
Phosphorus Trichloride			
Carbon Tetrachloride			
Iodine Pentafluoride 			
Carbonate Ion			
Thiocyanate Ion	SCN ⁻		

Name and Shape	Molecular Formula	Valence Electrons	Lewis Structure
Carbon Disulfide			
Formaldehyde	H ₂ CO		
Sulfate Ion			
Arsenic Pentafluoride			
Hydrogen Cyanide			
Sulfur Hexafluoride			
Xenon Tetrafluoride			

Data Table B. Molecular Geometry

Model	Bonding Pairs**†	Unshared Pairs*	Total†	Sketch and Molecular Geometry
A				
B				
C				
D				
E				
F				
G				
H				
I				
J				
K				

*Count the bonding and nonbonding pairs of electrons around the central atom only.

†In the case of double or triple bonds, count all of the electrons involved in the bond as one group or pair of electrons.