Name	Period	
Partner	Date	
Molecular Shapes Pre-Lab Questions:		
Tre-Lab Questions.		
1. Identify which color ball is typically used in following elements. Several exceptions are no		
C O	B	
H Cl/I/Br	P	
N S	Xe	
Build the following molecules using the molecules approval and get a rubber stamp on the number of indicate a lone pair.		
1) I <sub>2</sub> Iodine		
A <sub>2</sub> Linear		
	1)	
2) BCl <sub>3</sub> Boron trichloride		
AB <sub>3</sub> Trigonal Planar		
Use only the equatorial holes		
	2)	
0) GH		
3) CH <sub>4</sub> methane AB <sub>4</sub> Tetrahedral		
TID4 Tetraneurai		
	3)	
	3)	
4) NH <sub>3</sub> Ammonia		
AB <sub>3</sub> E Triangular Pyramidal		
	4)	
	4)	
5) H <sub>2</sub> O Water		
$AB_2E_2$ Angular or Bent		
	5)	
6) PCl <sub>5</sub> Phosphorus pentachloride		
AB <sub>5</sub> Triangular bi pyramidal		
	6)	

7) SF <sub>4</sub> Sulfur tetrafluoride AB <sub>4</sub> E Sea Saw (S Brown 5 hole)	
	7)
8) ClF <sub>3</sub> Chlorine trifluoride AB <sub>3</sub> E <sub>2</sub> T-shaped (Cl Brown 5 hole)	,
	8)
9) XeF <sub>2</sub> Xenon difluoride AB <sub>2</sub> E <sub>3</sub> Linear (Xe Brown 5 hole)	
	0)
10) SF <sub>6</sub> Sulfur hexafluoride AB <sub>6</sub> Octahedral (S Gray 6 hole)	9)
	10)
11) ClF <sub>5</sub> Chlorine pentafluoride AB <sub>5</sub> E Square pyramidal (Cl Gray 6 hole)	10)
	11)
12) XeF <sub>4</sub> Xenon tetrafluoride AB <sub>4</sub> E <sub>2</sub> Square planar (Xe Gray 6 hole)	,
	12)
	,
13) O <sub>2</sub> Oxygen gas (Double bond)	
	13)