Name:	Chem 10, Section:			
Lab Partner:		Exercise Date:		
Lewis Structur	es and Molecular Sha	pes		
1. H ₂ S				
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles	
Lewis Structure (show all resonance structures if applicable)				
	Molecular Shape:			
Any polar bonds in the molecule? Yes No	Molecular Polarity:	Polar	Non-Polar	
2. COCl ₂ Total # of Valence Electrons:	3-D Model Sketch		Bond Angles	
Lewis Structure (show all resonance structures if applicable)	3-D Model Sketch		Bolid Aligies	
	Molecular Shape:			
Any polar bonds in the molecule? Yes No	Molecular Polarity:	Polar	Non-Polar	
3. SiI ₄ (use a black ball for silicon when construct Total # of Valence Electrons:	ting this model) 3-D Model Sketch		Bond Angles	
Lewis Structure (show all resonance structures if applicable)				
	Molecular Shape:			
Any polar bonds in the molecule? Yes No	Molecular Polarity:	Polar	Non-Polar	
	Molecular Foldity.	1 Olai	11011-1 Olai	
4. HCN	2 D M 1 1 01 + 1		D 1 A 1	
Total # of Valence Electrons: Lewis Structure (show all resonance structures if applicable)	3-D Model Sketch		Bond Angles	
	Molecular Shape:			
Any polar hands in the malegule? Ves No.	Molecular Polarity	Polar	Non-Polar	

_	NIO -
Э.	$1NU_2$

5. NO_2^-		
Total # of Valence Electrons:	3-D Model Sketch	Bond Angles
Lewis Structure (show all resonance structures if applicable)		
	Molecular Shape:	
Any polar bonds in the molecule? Yes No	Molecular Symmetry: Symmetric	Asymmetric
6 H O [†] / H I I H S		
6. $\mathbf{H_3O}^+$ (use a yellow ball for oxygen (not red) w		D 1 4 1
Total # of Valence Electrons:	3-D Model Sketch	Bond Angles
Lewis Structure (show all resonance structures if applicable)		
	Malagrafa Characa	
Any polar bonds in the molecule? Yes No	Molecular Shape: Molecular Symmetry: Symmetric	A ayımmatnia
Any point bonds in the molecule? Tes No	Molecular Symmetry: Symmetric	Asymmetric
7. CHBr ₃		
Total # of Valence Electrons:	3-D Model Sketch	Bond Angles
Lewis Structure (show all resonance structures if applicable)		
	Molecular Shape:	
Any polar bonds in the molecule? Yes No	Molecular Polarity: Polar Nor	n-Polar
8. OF ₂		
Total # of Valence Electrons:	3-D Model Sketch	Bond Angles
Lewis Structure (show all resonance structures if applicable)		
	Molecular Shape:	
Any polar bonds in the molecule? Yes No	Molecular Polarity: Polar Not	n-Polar

^	\sim 2-
9.	CO_3^2

9. CO_3^{2-}			
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)			
	Molecular Shape:		
Any polar bonds in the molecule? Yes No	Molecular Symmetry:	Symmetric	Asymmetric
10. CS ₂	T		T
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)			
	Molecular Shape:		
Any polar bonds in the molecule? Yes No	Molecular Polarity:	Polar Nor	n-Polar
44 DE (
11. PF3 (use a blue ball for phosphorus when const			D 1 A 1
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)			
)		
A	Molecular Shape:	D-1 N	. D-1- ::
Any polar bonds in the molecule? Yes No	Molecular Polarity:	Polar Nor	n-Polar
12. NOCl			
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)	S D Model Sketch		Dona ingles
applicate			
	Molecular Change		
Any polar bonds in the molecule? Yes No	Molecular Shape: Molecular Polarity:	Polar Nor	n-Polar
Any polar bonds in the molecule? Ves No			

BO₃³-

15			
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)			
	Molecular Shape:		
Any polar bonds in the molecule? Yes No	Molecular Symmetry:	Symmetric	Asymmetric
	•		
14. O ₃			
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)			
	Molecular Shape:		
Any polar bonds in the molecule? Yes No	Molecular Polarity:	Polar Noi	n-Polar
N -			
15. N ₃	+		1
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)			
	Molecular Shape:		
Any polar bonds in the molecule? Yes No	Molecular Symmetry:	Symmetric	Asymmetric
A1C1			
16. AlCl ₃			
Total # of Valence Electrons:	3-D Model Sketch		Bond Angles
Lewis Structure (show all resonance structures if applicable)			
	Molecular Shape:		
Any polar bonds in the molecule? Yes No	Molecular Polarity:	Polar Noi	n-Polar