		•	•	
Name:				

- 1. Complete the following for each molecule in the space provided:
 - Draw the Lewis structure(s), including any resonance structures
 - Use VSEPR to predict the shape and bond angles
 - Indicate as a polar or nonpolar molecule (look for symmetry)

a Ì	Br ₂	(Br-Br)
	,	(— · — · <i>)</i>

 shape: _	
molecular polarity: _	
	b) O ₂
	.,
shape: _	
 bond angles: _	
molecular polarity: _	
	c) N ₂
	-,

shape: _____

bond angles: _____

molecular polarity: _____

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d) CH₂Cl₂

shape: _____bond angles: _____

molecular polarity: _____

e) CH₂O

shape: _____

bond angles: _____

molecular polarity: _____

f) O_3 (O-O-O)

shape: _____

bond angles: _____

molecular polarity: _____

g) H₂**C**CH₂

shape: _____

bond angles: _____

molecular polarity: _____

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h) **NO**₂

shape: ______bond angles: ______molecular polarity: _____

i) CO_3^{2-}

shape: ______bond angles: ______molecular polarity: ______

j) **Cl**O₂

shape: _____bond angles: _____

molecular polarity: _____

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ivallie.	

2. Print and complete the names/formulas in the table. Indicate as ionic (I) or covalent (C), and use the corresponding nomenclature.

<u>Name</u>	<u>Ionic/covalent</u>	<u>Formula</u>
carbon dioxide		
sodium chloride		
carbon tetrabromide		
disulfur monoxide		
silver bromide		
sulfur dioxide		
iron (II) oxide		
	- 	СО
		$MgBr_2$
		Fe_3O_2
		N_2O_4
	·	SCI ₆
	·	CIF ₃
		PCI ₅
(aqueous) nitrite ion		
		NO_2 (g)
chlorine dioxide gas		
		ClO ₂ (aq)