04 VSEPR Lab Pre-AP (3332150)

Question

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Description

Basic Periodic Table

Instructions

- Obtain the following for your group:
- 4 white (hydrogen) 1-prong model parts
- 3 green (chlorine) 4-prong model parts
- 3 red (oxygen) 4-prong model parts
- 2 blue (nitrogen) 4-prong model parts
- 1 black (carbon) 4-prong model part
- 4 long thin clear tubes (double or triple bonds)
- 4 short thick clear tubes (single bonds)

Only one student in	each group will tur	n in this assignment.	Use one iPad for
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Webassign and one iPad for Show Me. Create a Lewis dot structure for each molecule

using the iPad app: Show Me.

Make a model of the molecule and show it to the instructor for verification.

Use the model and Lewis dot structure to answer the questions.

For number of bonds: a single bond counts as one bond, a double bond also counts as

What is the bond polarity for the bonds in the molecule?

What is the molecule polarity for the molecule?

How many total lone pairs are in the molecule?

How many bonds are in the molecule?

Does this molecule have resonance?

one bond, and a triple bond counts as one bond.

1.	Question Details	Lab Partners [1837468]		
	Enter the name(s) of your lab partner(s). (If you worked by yourself, enter "none").			
2.	Question Details	VSEPR Lab H [740164] _		
	Using the Lewis structure and a model, answer the following questions about a hydrogen molecule: H_2			
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			

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3.	Question Details	VSEPR Lab Cl2 [2525236]		
	Using the Lewis structure and a model, answer the following questions about a chlorine molecule: Cl_2			
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			
	What is the bond polarity for the bonds in the molecule?			
	What is the molecule polarity for the molecule?			
	How many bonds are in the molecule?			
	How many total lone pairs are in the molecule?			
	Does this molecule have resonance?			
 ••	Question Details	VSEPR Lab HCI [2525237]		
	Using the Lewis structure and a model, answer the following questions about a hydrogen chloride mole	ecule: HCl		
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			
	What is the bond polarity for the bonds in the molecule?			
	What is the molecule polarity for the molecule?			
	How many bonds are in the molecule?			
	How many total lone pairs are in the molecule?			
	Does this molecule have resonance?			
	Question Details	VSEPR Lab O2 [2525238]		
	Using the Lowis structure and a model, answer the following questions about an evugen molecular Q.			
	What is the shape of the molecule?			
	what is the shape of the molecule?			
	What is the angle between the atoms in the melocule?			
	What is the angle between the atoms in the molecule?			
	What is the angle between the atoms in the molecule?			
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	What is the angle between the atoms in the molecule? What is the bond polarity for the bonds in the molecule? What is the molecule polarity for the molecule? How many bonds are in the molecule? How many total lone pairs are in the molecule? Does this molecule have resonance? Question Details Using the Lewis structure and a model, answer the following questions about a nitrogen molecule: N ₂ What is the shape of the molecule? What is the shape of the molecule? What is the angle between the atoms in the molecule? What is the angle between the atoms in the molecule? What is the molecule polarity for the bonds in the molecule? What is the molecule polarity for the molecule? What is the molecule? What is the mo	VSEPR Lab N2 [2525343]		
	What is the angle between the atoms in the molecule? © What is the bond polarity for the bonds in the molecule? © What is the molecule polarity for the molecule? © How many bonds are in the molecule? © How many total lone pairs are in the molecule? © Does this molecule have resonance? © Question Details	VSEPR Lab N2 [2525343]		

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7.	Question Details VSEPR Lab H2O [252	25344]		
	Using the Lewis structure and a model, answer the following questions about a water molecule: H_2O			
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			
	What is the bond polarity for the bonds in the molecule?			
	What is the molecule polarity for the molecule?			
	How many bonds are in the molecule?			
	How many lone pairs are on the central atom in the molecule?			
	How many total lone pairs are in the molecule?			
	Does this molecule have resonance?			
о.	Question Details VSEPR Lab CO2 [232	5545]		
	Using the Lewis structure and a model, answer the following questions about a carbon dioxide molecule: CO_2			
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			
	What is the bond polarity for the bonds in the molecule?			
	What is the molecule polarity for the molecule?			
	How many bonds are in the molecule?			
	How many lone pairs are on the central atom in the molecule?			
	How many total lone pairs are in the molecule?			
	Does this molecule have resonance?			
	What is the formal charge on the carbon?			
	What is the formal charge on each oxygen?			
	Question Details	25347]		
	Using the Lowis structure and a model, answer the following questions about an ammonia molecule: NH-	-		
	What is the share of the melocule?			
	What is the angle between the stame in the melocule?			
	What is the lend polarity for the bonds in the molecule?			
	What is the polarity for the bonds in the molecule?			
	Does this molecule have resonance?			

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LO.	Question Details	VSEPR Lab CH4 [2525515]			
	Using the Lewis structure and a model, answer the following questions about a metha	ne molecule: CH ₄			
	What is the shape of the molecule?	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?				
	What is the bond polarity for the bonds in the molecule?				
	What is the molecule polarity for the molecule?				
	How many bonds are in the molecule?				
	How many lone pairs are on the central atom in the molecule?				
	How many total lone pairs are in the molecule?				
	Does this molecule have resonance?				
	Question Details	VSEPK LAD HCN [2525530]			
	Using the Lewis structure and a model, answer the following questions about a hydrog	gen cyanide molecule: HCN			
	What is the shape of the molecule?				
	What is the angle between the atoms in the molecule?				
	what is the bond polarity for the H-C bond in the molecule?				
	What is the polarity for the C-N bond in the molecule?				
	How many bands are in the molecule?				
	How many bonds are in the molecule?				
	How many total long pairs are in the molecule?				
	What is the formal charge on the carbon?				
	What is the formal charge on the nitrogen?				
12.	Question Details	VSEPR Lab NO3- [2525557]			
	Using the Lewis structure and a model, answer the following questions about a nitrate	e ion: NO3 ⁻			
	What is the shape of the molecule?				
	What is the angle between the atoms in the molecule?				
	What is the bond polarity for the bonds in the molecule?				
	What is the molecule polarity for the molecule?				
	How many bonds are in the molecule?				
	How many lone pairs are on the central atom in the molecule?				
	How many total lone pairs are in the molecule?				
	Does this molecule have resonance?				
	What is the formal charge on the nitrogen?				
	What is the formal charge on the oxygen with the double bond?				
	What is the formal charge on the oxygens with the single bonds?				

13.	Question Details	VSEPR Lab NH4+ [2526086]		
	Using the Lewis structure and a model, answer the following questions about an ammonium ion: ${\sf NH_4^+}$			
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			
	What is the bond polarity for the bonds in the molecule?			
	What is the molecule polarity for the molecule?			
	How many bonds are in the molecule?			
	How many lone pairs are on the central atom in the molecule?			
	How many total lone pairs are in the molecule?			
	Does this molecule have resonance?			
	What is the formal charge on the nitrogen?			
	What is the formal charge on the hydrogens?			
14.		VSEPR Lad US [2520088]		
	Using the Lewis structure and a model, answer the following questions about an ozone molecule: O	3		
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			
	What is the bond polarity for the bonds in the molecule?			
	What is the molecule polarity for the molecule?			
	How many bonds are in the molecule?			
	How many lone pairs are on the central atom in the molecule?			
	How many total lone pairs are in the molecule?			
	Does this molecule have resonance?			
15.	Question Details	VSEPR Lab Cl3+ [2526089]		
	Using the Lewis structure and a model, answer the following questions about the trichloride ion: Cl_2	+		
	What is the shape of the molecule?			
	What is the angle between the atoms in the molecule?			
	What is the lond polarity for the bonds in the molecule?			
	What is the molecule polarity for the molecule?			
	How many honds are in the molecule?			
	How many lone pairs are on the central atom in the molecule?			
	How many total lone pairs are in the molecule?			

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