08 AP VSEPR Lab (2138662)

Question

1	2	3	4	5	6	7	8	q	10	11	12	13	14	15	16	17	18	19	20	21
	<u> </u>	0	- -		0		0	U	10		12	10		10	10		10	10	20	~ '

Instructions

A. Obtain the following for your group.

6 green (fluorine, chlorine, bromine or iodine) 4-prong model parts

3 red (oxygen) 4-prong model parts

1 blue (nitrogen) 4-prong model part

1 purple (phosphorous, xenon, chlorine, bromine, arsenic or iodine) 5-prong model

part

1 silver (xenon, sulfur, selenium, bromine, arsenic or iodine) 6-prong model part

2 black (carbon or sulfur) 4-prong model parts

1 yellow (sulfur) 4-prong model parts

3 hydrogen (white) 1-prong model parts

6 short clear tubes (single bonds)

6 long clear tubes (double or triple bonds)

B. Only one student in each group will turn in this assignment. Use one iPad for Webassign and one iPad for Screen Chomp. Create a Lewis dot structure for each molecule using the iPad app: Screen Chomp.

C. Next create a model of the molecule using the parts you collected in step A.

D. Use the model to help answer the questions. Only one student in each group will open Webassign and submit answers.

E. To count the number of bonds on the central atom, a single bond counts as one bond, a double bond counts as 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 XeF4 [1928972]
	Using the Lewis structure and a model, answer the following questions about XeF ₄ .	
	How many bonds are on the central atom?	
	How many lone pairs are on the central atom?	
	The shape of XeF ₄ is:Select	
 3.	Ouestion Details	Hvbridization XeF4 [1928977]
		, , , , , , , , , , , , , , , , , , , ,
	The hybridization of Xe in XeF ₄ is:	

4.	Question Details	VSEPR H2CO [1928989]
	Using the Lewis structure and a model, answer the following que	stions about H ₂ CO.
	How many bonds are on the central atom?	-
	How many lone pairs are on the central atom?	
	The shape of H ₂ CO is:Select	
	There are several Lewis structures that satisfy the octet rule for	H_2CO . Use the structure with the least formal charges to
	answer the following:	
	What is the formal charge on the carbon?	
	What is the formal charge on the oxygen?	
5.	Question Details	Hybridization H2CO [1928991]
	The hybridization of C in H_2CO is:Select	
6.	Question Details	VSEPR H3O+ [1928994]
	Lising the Lewis structure and a model, answer the following que	stions about HaO+
	How many hands are on the control atom?	
	How many lone pairs are on the central atom?	
	What is the formed shares on the hudrones?	
	What is the formal charge on the oxygen?	
7.	Question Details	Hybridization H3O+ [1928996]
	The hybridization of O in H_3O^+ is:Select	
8.	Question Details	VSEPR BrF5 [1929005]
	Using the Lewis structure and a model, answer the following que	stions about BrFr.
	How many bonds are on the central atom?	
	How many lone pairs are on the central atom?	
	The shape of BrF ₅ is:Select	
9.	Question Details	Hybridization BrF5 [1929007]
		, -
	The hybridization of Br in BrF ₅ is:Select 📀	

10.	Question Details	VSEPR SCI2 [1929009] _
	Using the Lewis structure and a model, answer the following questions about SCI_2 .	
	How many bonds are on the central atom?	
	How many lone pairs are on the central atom?	
	The shape of SCl ₂ is:Select	
11.	Question Details	Hybridization SCI2 [1929127]
	The hybridization of S in SCl ₂ is:Select	
12.	Question Details	VSEPR SCN- [1929125] _
	Using the Lewis structure and a model, answer the following questions about SCN $^{-}$.	
	How many bonds are on the central atom?	
	How many lone pairs are on the central atom?	
	The shape of SCN ⁻ is:Select	
	There are several Lewis structures that satisfy the octet rule for SCN ⁻ .	
	Use the structure with the least formal charges to answer the following:	
	What is the formal charge on the sulfur?	
	What is the formal charge on the nitrogen?	
		Hybridization SCN- [1920012]
15.		
	The hybridization of C in SCN ⁻ is:Select 😌	
14.	Question Details	VSEPR AsF4- [1929128] _
	Using the Lewis structure and a model, answer the following questions about AsF_4^- .	
	How many bonds are on the central atom?	
	How many lone pairs are on the central atom?	
	The shape of AsF ₄ ⁻ is:Select	
	Question Details	Hybridization AsF4- [1929131]
		,
	The hybridization of As in AsF ₄ ⁻ is:Select ᅌ	

	Question Details	VSEPR XeH2 [1929]	L46]
	Using the Lewis structure and a model, answer the How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of XeH ₂ is:Select	the following questions about XeH ₂ .	
L7.	Question Details The hybridization of Xe in XeH ₂ is:Select	Hybridization XeH2 [1929:	.47]
.8.	Question Details	VSEPR CIF3 [1929]	L48]
	Using the Lewis structure and a model, answer the Mow many bonds are on the central atom? How many lone pairs are on the central atom? The shape of CIF_3 is:Select	the following questions about ClF ₃ .	
.9.	Question Details	Hybridization CIF3 [1929:	 149]
	The hybridization of Cl in ClF ₃ is:Select		
0.	Question Details Using the Lewis structure and a model, answer	VSEPR SeI6 [1929: the following questions about SeI ₆ .	156]
	How many bonds are on the central atom?		
	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select		
1.	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select C	S C Hybridization SeI6 [1929:	
 1.	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select	♀ ■ Hybridization SeI6 [1929:	
1. ssign	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details	S Hybridization SeI6 [1929: S	
1. sign	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662)	Comparison Self (1929) Comparison Self (1929	
1. sign ame ubmi	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 Day: Homework	Feedback Settings Before due date Oursetion Score	
1. sign ame ubmi atego ode:	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 ory: Homework	Hybridization SeI6 [1929: Feedback Settings Before due date Question Score Assignment Score	
ssign ame ubmi atego ode:	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 ory: Homework d: Yes	Feedback Settings Before due date Question Score Assignment Score Publish Essay Scores	
ssign ame ubmi atego ode: ockeo uthor	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) assions Allowed: 5 ory: Homework d: Yes r: Ryan, Matt (mryan@allsaintsschool.org)	Feedback Settings Before due date Question Score Publish Essay Scores Question Part Score	
21. ssign ame ubmi atego ode: ockeo uthor ast S	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 ory: Homework d: Yes r: Ryan, Matt (mryan@allsaintsschool.org) aved: May 10, 2017 02:08 PM CDT	Feedback Settings Before due date Question Score Assignment Score Publish Essay Scores Question Part Score Mark	
essign ame ubmi atege ode: ockee uthor ast S ermis	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 ory: Homework d: Yes r: Ryan, Matt (mryan@allsaintsschool.org) aved: May 10, 2017 02:08 PM CDT ssion: Protected	Feedback Settings Before due date Question Score Assignment Score Publish Essay Scores Question Part Score Mark Add Practice Button	.57]
21. 21. ame ubmi atego ode: uthor ast S ermis ando	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 ory: Homework d: Yes r: Ryan, Matt (mryan@allsaintsschool.org) aved: May 10, 2017 02:08 PM CDT ssion: Protected omization: Person mend block	Feedback Settings Before due date Question Score Assignment Score Publish Essay Scores Question Part Score Mark Add Practice Button Help/Hints	.57]
21. ssign ame ubmi atego ode: ockeo uthor ast S ermis ando /hich	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 ory: Homework d: Yes r: Ryan, Matt (mryan@allsaintsschool.org) aved: May 10, 2017 02:08 PM CDT ssion: Protected prization: Person graded: Last	Feedback Settings Before due date Question Score Assignment Score Publish Essay Scores Question Part Score Mark Add Practice Button Help/Hints Response Stare Work	
21. ame ubmi ategr ode: ocker uthor ast S ermis ando /hich	How many bonds are on the central atom? How many lone pairs are on the central atom? The shape of SeI ₆ is:Select Question Details The hybridization of Se in SeI ₆ is:Select ment Details (AID): 08 AP VSEPR Lab (2138662) issions Allowed: 5 ory: Homework d: Yes r: Ryan, Matt (mryan@allsaintsschool.org) aved: May 10, 2017 02:08 PM CDT ssion: Protected omization: Person graded: Last	Feedback Settings Before due date Question Score Assignment Score Publish Essay Scores Question Part Score Mark Add Practice Button Help/Hints Response Save Work After due date	

Assignment Score Publish Essay Scores Key Question Part Score Solution Mark Add Practice Button Help/Hints Response