

## Post Laboratory Assignment

Answer the following on a separate sheet of paper.

- Using the data collected for  $\text{PF}_5$ ,  $\text{SF}_6$  and  $\text{ClF}_3$ , what structural comments can be made about molecules with more than four groups (charge clouds) around the central atom?
- Select which structure is preferred and discuss why?



- To assess the stability of the axial vs. equatorial positions for a trigonal bipyramidal structure, a computer program was used to determine the energy for  $\text{SF}_4$  with the lone pair in either position (axial or equatorial). The data obtained is shown below:

Equatorial: Energy = -795.14 au

Axial: Energy = -795.088 au

- Using the conversion factor  $627.5096 \text{ kcal} = 1 \text{ au}$ , what is the energy difference in kcal between the two structures?
  - According to these data, which structure is more stable (more negative)?
  - Does this agree with your explanation from the previous question? Why or why not?
- Below is a table that lists dipole moments and bond angles calculated by a computer program for three molecules. Discuss why the bond angles differ and describe the significance for the dipole moment difference.

Molecule	Dipole moment	Bond Angle
Methane	0.00 Debye	$109.47^\circ$
Ammonia	1.84 Debye	$107.57^\circ$
Water	2.15 Debye	$105.93^\circ$

- Below is a table that lists dipole moments for three molecules. Discuss the ionic and covalent character of each compound using the dipole moment values.

Molecule	Dipole moment
$\text{H}_2$	0.00 Debye
HF	1.94 Debye
LiH	5.95 Debye

# Experiment 11 Molecular Models Answers

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Kopelman**



## **Experiment 11 Molecular Models Answers:**

## Decoding **Experiment 11 Molecular Models Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Experiment 11 Molecular Models Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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