

Power Point Study– 01-1Molecular Structure**Name:**

Answer these questions as you are watching the videos. These questions should help you focus on the important concepts in the particular topic.

1) Write the electronic configuration (spdf and box notations) of the following elements.

C

N

Cl

2) Complete the following table:

| | CHCl ₃ | SO ₂ | CH ₃ CCl ₃ | BeCl ₂ |
|---|-------------------|-----------------|----------------------------------|-------------------|
| Lewis Structure Indicate the polar covalent bonds, if any, in the structure. | | | | |
| AXE formula | | | | |
| Electronic Geometry | | | | |
| Shape of the molecule | | | | |

3) Which of the following molecules DO NOT obey the octet rule. Give the reason why.

a) H₂Sb) BCl₃c) PF₅d) SO₂4) SF₄

4) What is the formal charge on the atom(s) in **bold** in the following compounds?

