$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(b) Br ₂
(a) NCl_3 (b) SeF_2 (c) CH_3C (d) H_2O (e) SiH_4 (f) OF_2	I
(g) PBr (h) CH OH (i) CO	
(g) 1 B1 ₃ (li) C11 ₃ O11 (l) CO	
(j) CS_2 (k) H_2CO_3 (l) H_2	\mathcal{O}_2

of the following compounds. Then give the **commo** (b) C_2H_4 (c) C_2H_2

 C_2H_6 (a)

(d) (f) N_2H_2 $N_2 H_4 \\$ (e) $NH_{3} \\$

VSEPR _			
Chemistry		Name	
1	Give the number and arrangement of the electron pairs around		
(a) C i	$n CCl_4$ (b) S in H_2S	(c) Al in AlH ₃	
2	Use VSEPR theory to predict the structure of these polyaton		
(a)	ammonium ion (b) niti	rate ion	
3	Use VSEPR theory to predict the shape of these molecules:	(-) C-F	
(a) SiF	H_4 (b) PH_3	(c) SeF ₂	
4	Consider the two molecules BF ₃ and NH ₃ . First draw their L	ewis structures and molecular geometries according	
	to VSEPR. Then compare and contrast them in terms of the		
	(a) valence-level orbitals on the central atom that are used f	or bonding	
(b) shape of the molecule(c) number of lone electron pairs on the central atom			
	(d) type and number of bonds found in the molecule		
	BF_3	NH_3	
Struc	ture		
(a	/		
/1.)		
(b			
10			
(0	<i>'</i>		
(a	()		