Chem 1A
Octet Rule Violations – mostly "valence shell expansion"
Lewis Structures & VSEPR Theory Worksheet and
Molecular Model Lab Report #2

Name

Formula # valence e-	Lewis Structure (don't worry about geometry here)	central atoms list each central atom	number of electron domains on each central atom	bond angles around each central atom	number of electron lone pairs on each central atom	number of atoms bonded to each central atom	VSEPR geometries 1. for electron domains 2. for bonded atoms around each central atom	Geometrically correct Lewis Structure with VSEPR bond angles (label the bond angles). Ball and stick model (from moleview.org) Space filling model (from molview.org)	Is this molecule polar? (i.e. does the molecule have a net dipole or is it an ion?)
PCl ₅									
SF ₄									
ClF ₃									
XeF ₂									
SF ₆									

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ICl ₂ -						
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