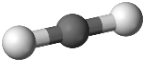
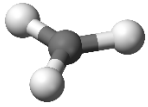
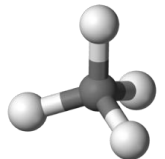
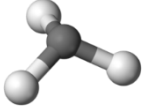
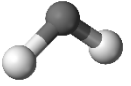
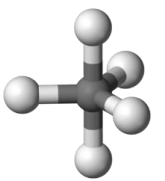
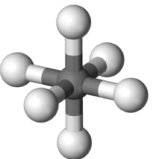


Chem Unit 5 – VSEPR Summary

Name: _____

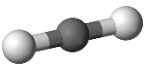
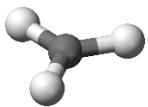
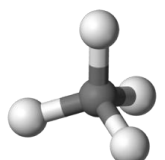
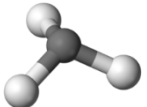
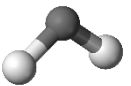
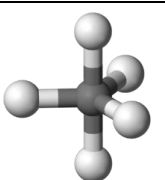
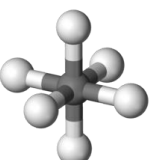
Date: _____ Block: _____

Group	IIA	IIIA	IVA	VA	VIA	Other	Other
							
Shape	Linear	Trigonal planar	Tetrahedral	Trigonal pyramidal	Bent	Trigonal bipyramidal	Octahedral
Bond Angle	180°	120°	109.5° (~109°)	107° (~109°)	105° (~109°)	90°, 120°	90°
Hybrid Orbitals	sp	sp ²	sp ³	sp ³	sp ³	sp ³ d	sp ³ d ²
General Formula	AX, AX ₂	AX ₃	AX ₄	AX ₃	AX ₂	AX ₅	AX ₆
Polarity	Nonpolar (if X's identical)	Nonpolar (if X's identical)	Nonpolar (if X's identical)	Polar (always)	Polar (always)	Nonpolar (if X's identical)	Nonpolar (if X's identical)
	Polar (if X's different)	Polar (if X's different)	Polar (if X's different)			Polar (if X's different)	Polar (if X's different)
Lone pairs on central atom	0	0	0	1	2	0	0

Chem Unit 5 – VSEPR Summary

Name: _____

Date: _____ Block: _____

Group	IIA	IIIA	IVA	VA	VIA	Other	Other
							
Shape	Linear	Trigonal planar	Tetrahedral	Trigonal pyramidal	Bent	Trigonal bipyramidal	Octahedral
Bond Angle	180°	120°	109.5° (~109°)	107° (~109°)	105° (~109°)	90°, 120°	90°
Hybrid Orbitals	sp	sp ²	sp ³	sp ³	sp ³	sp ³ d	sp ³ d ²
General Formula	AX, AX ₂	AX ₃	AX ₄	AX ₃	AX ₂	AX ₅	AX ₆
Polarity	Nonpolar (if X's identical)	Nonpolar (if X's identical)	Nonpolar (if X's identical)	Polar (always)	Polar (always)	Nonpolar (if X's identical)	Nonpolar (if X's identical)
	Polar (if X's different)	Polar (if X's different)	Polar (if X's different)			Polar (if X's different)	Polar (if X's different)
Lone pairs on central atom	0	0	0	1	2	0	0