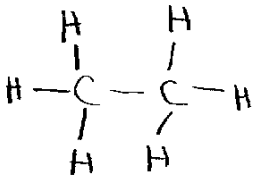
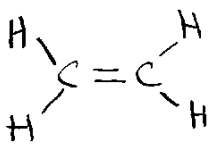
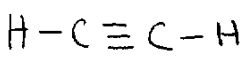
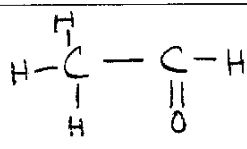
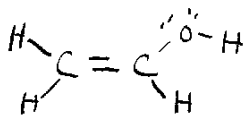
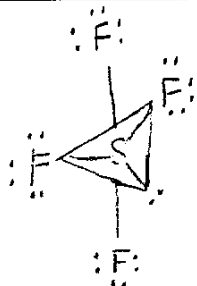


Name ANSWER KEY

Date _____

MOLECULAR BONDING AND SHAPES

Species	Lewis Dot Structure	Central Atom Hybridization	Molecular Geometry
H ₂ O		sp ³	Angular or Bent
NH ₃		sp ³	Trigonal Pyramidal
N ₂ F ₂		sp ²	Angular or Bent
CH ₄		sp ³	Tetrahedral

Species	Lewis Dot Structure	Central Atom Hybridization	Molecular Geometry
C ₂ H ₆		sp ³	Tetrahedral
C ₂ H ₄		sp ²	Trigonal Planar
C ₂ H ₂		sp	Linear
C ₂ H ₄ O		sp ³ sp ²	Tetrahedral Trigonal Planar
		sp ²	Trigonal Planar
SF ₄		sp ³ d	See saw

Species	Lewis Dot Structure	Central Atom Hybridization	Molecular Geometry
ClF_3		sp^3d	T-shaped
ClF_5		sp^3d^2	Square Pyramidal
NO_2^+		sp	Linear
NO_2^-		sp^2	Bent or Angular
NO_3^-		sp^2	Trigonal Planar

Species	Lewis Dot Structure	Central Atom Hybridization	Molecular Geometry
PCl_3		sp^3	Trigonal Pyramidal
PCl_4^+		sp^3	Tetrahedral
PCl_5		sp^3d	Trigonal Bipyramidal
PCl_6^-		sp^3d^2	Octahedral
SO_2		sp^2	Angular OR Bent