

CP CHEMISTRY

PERIOD \_\_\_\_\_

DUE: \_\_\_\_\_(Next day after lab)

NAME \_\_\_\_\_

with \_\_\_\_\_

DATE \_\_\_\_\_

**LAB: THE SHAPES OF MOLECULES-PART I**

INSTRUCTIONS: Build models for the following 10 molecules and then complete the tables provided. (&)-Means that there is a coordinate covalent bond involved in that diagram.

Molecule	Lewis Dot Diagram	Structural Diagram	# of Shared Pairs	# of Unshared Pairs	Molecular Shape & Bond Angle	Number & Type(s) of Bond
CO <sub>2</sub>					=====	=====
SCl <sub>2</sub>					=====	=====
NBr <sub>3</sub>					=====	=====
SiCl <sub>4</sub>					=====	=====
SO <sub>3</sub> (&)					=====	=====

TURN OVER TO THE BACK

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DATE \_\_\_\_\_

**LAB: THE SHAPES OF MOLECULES-PART I (continued)**

Molecule	Lewis Dot Diagram	Structural Diagram	# of Shared Pairs	# of Unshared Pairs	Molecular Shape & Bond Angle	Number & Type(s) of Bond
H <sub>2</sub> Se					=====	=====
PH <sub>3</sub>					=====	=====
CBr <sub>4</sub>					=====	=====
N <sub>2</sub> O (&)					=====	=====
H <sub>2</sub> S					=====	=====

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**LAB: THE SHAPES OF MOLECULES-PART I (continued)****Provide examples of molecules not used so far in this lab**

Molecule	Lewis Dot Diagram	Structural Diagram	# of Shared Pairs	# of Unshared Pairs	Molecular Shape & Bond Angle	Number & Type(s) of Bond
_____ HAS Single Bond(s)					=====	=====
_____ HAS Double Bond(s)					=====	=====
_____ HAS Triple Bond(s)					=====	=====
_____ HAS Coordinate Bond(s)					=====	=====
_____ HAS Ionic Bond(s)	LOOKING	AHEAD	TRY	THIS	ONE	OUT