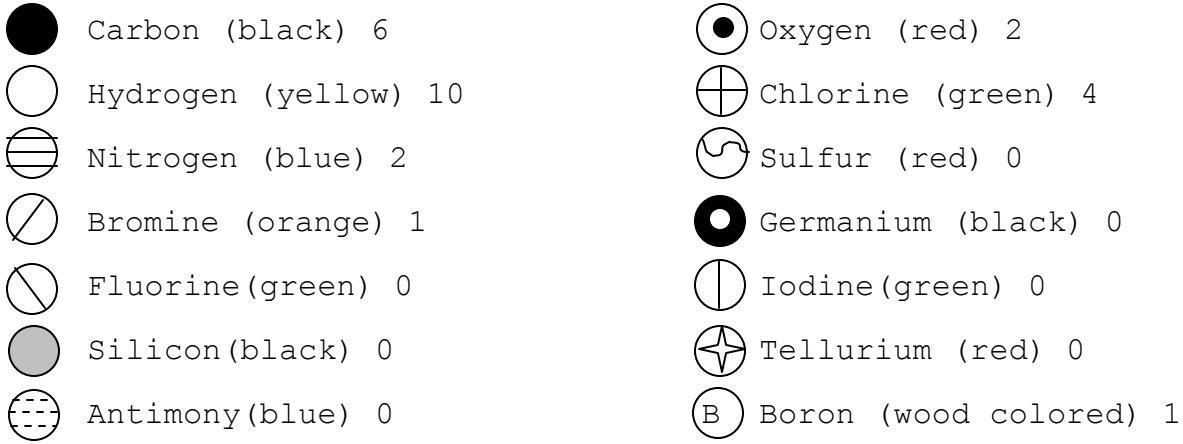
AP Chemistry Lab Handout "Molecular Model Polarity and Geometry"

Purpose:

Materials: Molecular Model Building Kit



8 long sticks, 20 short sticks & 8 springs

Procedure:
1. Assemble each molecule and fill out the observations table. Use the key above for drawing structural model.
2. Rules for building:
   A. All holes must be filled.
   B. Use springs only when the bond must be curved to fit.
3. Complete all the observations for a single molecule before going on to the next molecule.

1.	HCOOH	2.	$CO(NH_2)_2$	3.	HCN	4.	H_2S
5.	$SiCl_4$	6.	SbI_3	7.	Cl_2GeO	8.	OBr_2
9.	CS_2	10.	$C_2Cl_2H_2$	11.	TeI_2	12.	BF_3

Here are the suggested column titles for your lab book: (across 2 pages)

Formula	Model Drawing	Lewis Structure	σ Bonds	π Bonds	Bond Angles	e^- domain Geometry	Molecular Geometry	Oribital Hybridization	Bond Polarity	Molecular Polarity