## Lewis Dot, Resonance, Formal Charge, and VSEPR practice

Draw the Lewis dot structures for the following molecules

CBr₄

$$\left( \begin{array}{c} \vdots \vdots \\ \vdots \\ \vdots \\ \end{array} \right)^{2}$$

C2H5Cl 20e

Draw as many resonance structures as you can for the following structures. Assign formal charges.

NO CNNO)

$$\begin{array}{ccc}
1 & 1 & 0 \\
N & N & 0
\end{array}$$

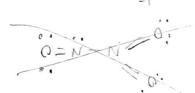
$$V = V - 0$$

NO 110

$$N = 0$$
.

N<sub>2</sub>O<sub>3</sub> (ONNO2) 28 €

$$O \equiv N - N$$



Assign formal charges to the following. Which is the more importance resonance structure?

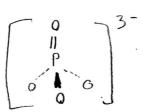
$$H - N = N - N$$

$$\ddot{S} = C = N;$$

What shape do you expect for the following structures? Build a model of each molecule. Use paddles for lone pairs.

H<sub>2</sub>Se

PO<sub>4</sub>3-



TiCl<sub>4</sub>

SCN'

03



$$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}^2$$

GaH<sub>3</sub>



$$\begin{bmatrix}
cro_4^2 & & & & \\
0 & & & \\
0 & & & \\
0 & & & \\
0 & & & \\
\end{bmatrix}$$