

**Cal Poly Pomona, Organic Chemistry CHM 201, Dr. Laurie S. Starkey**  
**Lewis Structure and 3-D Sketch Homework**

Name: \_\_\_\_\_ Section: \_\_\_\_\_ (day/time)

For each of the following compounds, draw a 3-dimensional sketch, using dashes and wedges. **Start by drawing a detailed Lewis structure** (try doing this without calculating the number of valence electrons - just start filling octets!) and located the maximum number of atoms in the plane. Be sure to show all atoms (no line drawings), to draw pi bonds (with sets of overlapping p orbitals) and to include the orientation of lone pairs of electrons (you can skip 3D for lone pairs on chlorine atoms).

