

## Visualizing the atom

Using internet resources, including the class web site, draw sketches of the following:

1. The 1s sublevel
2. The 2s sublevel.....draw it relative to the 1s.....
3. The three orbitals in the 2p sublevel.....
4. Three orbitals in the 2p drawn mutually perpendicular.....
5. The 3s sublevel.....draw it relative to the 1s and 2s.....
6. Three orbitals in the 3p sublevel....draw relative to the 2p sublevel.
7. Three orbitals in the 3p sublevel drawn mutually perpendicular.
8. The 4s orbital.....draw it relative to the other s sublevels.....
9. One 3d orbital.