**CHE2060 Lab WS: Electron configuration of nonmetals KEY**

The nonmetal atoms shown here are typically found in organic compounds.

For each of these atoms please complete a-c on green engineering graph paper:

1. Create a box-arrow diagram showing the element’s ground-state (atomic) electron configuration.
2. Create a second box-arrow diagram to show its ionic electron configuration.
3. Write the elements ground-state electron configuration.

Complete the partial periodic table (below) by:

1. Adding the column numbers.
2. Adding atomic numbers.
3. Adding the abbreviated electron configuration for the atomic form of each element. Remember that the abbreviated version uses the previous [noble gas] to show core electrons and then adds valence electrons.

