

## Electron Configuration Worksheet

- List the aufbau sequence of orbitals from 1s to 7p.
- Write orbital notations and complete electron configurations for atoms of the following elements.
  - Beryllium
  - Aluminum
  - Nitrogen
  - Sodium
- Use noble-gas notation to describe the electron configurations of the elements represented by the following symbols.
  - Mn
  - Kr
  - P
  - Zn
  - Zr
  - W
  - Pb
  - Ra
  - Sm
  - Bk
- What elements are represented by each of the following electron configurations?
  - $1s^2 2s^2 2p^5$
  - $[\text{Ar}]4s^2$
  - $[\text{Xe}]6s^2 4f^4$
  - $[\text{Kr}]5s^2 4d^{10} 5p^4$
  - $[\text{Rn}]7s^2 5f^{13}$
  - $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^5$