

Name _____ Date _____

Electron Configuration Worksheet 2

In the space below, write the unabbreviated electron configurations of the following elements:

- 1) carbon _____
- 2) copper _____
- 3) magnesium _____
- 4) arsenic (As) _____
- 5) tin _____

In the space below, write the abbreviated electron configuration of the following elements:

- 6) silicon _____
- 7) cobalt _____
- 8) zirconium (Zr) _____
- 9) mercury (Hg) _____
- 10) tantalum (Ta) _____
- 11) lanthanum (La) _____
- 12) Seaborgium (Sg) _____

Determine what elements are denoted by the following electron configurations:

- 11) $1s^2 2s^2 2p^6 3s^2 3p^4$ _____
- 12) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1$ _____
- 13) $[\text{Ar}] 4s^2 3d^{10} 4p^4$ _____
- 14) $[\text{Kr}] 5s^2 4d^7$ _____
- 15) $[\text{Xe}] 6s^2 4f^9$ _____

Fill in the following Aufbau diagram for copper

