

4.7: Electron Arrangments (Worksheet)

Name: _____

Section: _____

Student ID#: _____

Work in groups on these problems. You should try to answer the questions without referring to your textbook. If you get stuck, try asking another group for help.

Q1.

Write the full ground-state electron configuration and orbital diagram for the following:

- a. Rb
- b. Ge
- c. Ar
- d. Br
- e. Mg
- f. Se
- g. Cl
- h. Si
- i. Sr

Q2.

Write the condensed electron configuration for the following, and indicate valence and core electrons:

- a. Ti
- b. Cl
- c. Hg
- d. Ba

Q3.

Write the electron configuration for the following ions:

- a. Be^{2+}
- b. Sc^{+1}
- c. As^{2-}
- d. N^{3-}

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