

Electron Configuration Worksheet

1. $1s 2s 2p 3s 3p 4s 3d 4p 5s 4d 5p 6s 4f 5d 6p 7s 5f 6d 7p$

2. (a) Be $1s^2 2s^2$

(b) Al $1s^2 2s^2 2p^6 3s^2 3p^1$

(c) N $1s^2 2s^2 2p^3$

(d) Na $1s^2 2s^2 2p^6 3s^1$

3. (a) Mn $[Ar] 4s^2 3d^5$

(b) Kr $[Ar] 4s^2 3d^{10} 4p^6$

(c) P $[Ne] 3s^2 3p^3$

(d) Zn $[Ar] 4s^2 3d^{10}$

(e) Zr $[Kr] 5s^2 4d^2$

* (f) W $[Xe] 6s^2 4f^{14} 5d^4$

* (g) Pb $[Xe] 6s^2 4f^{14} 5d^{10} 6p^2$

* (h) Ra $[Rn] 7s^2$

* (i) Sm $[Xe] 6s^2 4f^6$

* (j) Bk $[Rn] 7s^2 5f^9$

4. (a) F * (c) Nd (e) Md

(b) Ca (d) Te (f) Br

* These are done for practice ONLY. They will not appear on tests or exams.