

8 • Electron Configurations & Periodicity

WRITING ELECTRON CONFIGURATIONS

For each given element, fill in the orbital diagram and then write the electron configuration for the element.

1.	2.	3.	4.	5.	6.
Element: Ar # of e ⁻ 's: <u>18</u>	Element: Mg # of e ⁻ 's: <u>12</u>	Element: N # of e ⁻ 's: <u>7</u>	Element: Li # of e ⁻ 's: <u>3</u>	Element: P # of e ⁻ 's: <u>15</u>	Element: Cl # of e ⁻ 's: <u>17</u>

Write the electron configurations of each of these in **long form** and **short form**:

- Ar $1s^2 2s^2 2p^6 3s^2 3p^6$
 Ar $[Ne] 3s^2 3p^6$
- Mg $1s^2 2s^2 2p^6 3s^2$
 Mg $[Ne] 3s^2$
- N $1s^2 2s^2 2p^3$
 N $[He] 2s^2 2p^3$
- Li $1s^2 2s^1$
 Li $[He] 2s^1$
- P $1s^2 2s^2 2p^6 3s^2 3p^3$
 P $[Ne] 3s^2 3p^3$
- Cl $1s^2 2s^2 2p^6 3s^2 3p^5$
 Cl $[Ne] 3s^2 3p^5$



7. Fill in the orbital diagram for the element, Fe, and write the electron configuration of Fe in the long and short form.



Electron Configurations Answer Key

Ensheng Dong



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