

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 $[\text{Ne}] 3s^2 3p^6$
- Mg $1s^2 2s^2 2p^6 3s^2$
 Mg $[\text{Ne}] 3s^2$
- N $1s^2 2s^2 2p^3$
 N $[\text{He}] 2s^2 2p^3$
- Li $1s^2 2s^1$
 Li $[\text{He}] 2s^1$
- P $1s^2 2s^2 2p^6 3s^2 3p^3$
 P $[\text{Ne}] 3s^2 3p^3$
- Cl $1s^2 2s^2 2p^6 3s^2 3p^5$
 Cl $[\text{Ne}] 3s^2 3p^5$



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



Answer Key Electron Configurations Of Atoms And Ions Lab

Anthony S. Fauci



Answer Key Electron Configurations Of Atoms And Ions Lab:

Decoding **Answer Key Electron Configurations Of Atoms And Ions Lab**: Revealing the Captivating Potential of Verbal Expression

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