

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.



Holt Chemistry Section Review Answers Electron Configuration

Reginald Robert Hawkins



Holt Chemistry Section Review Answers Electron Configuration:

Holt Chemistry Ralph Thomas Myers,2004 *Holt Chemistry* Holt Rinehart & Winston,2003-01-24 Modern Chemistry Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2001 **Light of the Mind, Light of the World** Spencer Klavan,2024-10-15 The world is not a machine Humanity is not a mistake For centuries a grim anti human outlook has taken hold of the public imagination teaching us all to view ourselves as random products of a cruel and uncaring natural world Today from apocalyptic environmentalism to twisted eugenics and dystopian bionic augmentation movements are rising around the world to dispense with humanity or subordinate it to a pitiless mechanical logic For many it has come to seem as if the human spirit is obsolete religious faith is illusory and mankind is destined to be extinguished or surpassed Some might even see the end of humanity as a good thing But that is not our future Light of the Mind Light of the World tells a daring new story about how we got here and how we can chart a better path forward Surveying the history of science and faith from the astronomers of Babylon to the quantum physicists of postwar Europe and America classicist and scholar Spencer A Klavan argues that science itself is leading us not away from God but back to him and to the ancient faith that places the human soul at the center of the universe Reconciling the discoveries of science with the truths of the Bible Klavan shows how the search for knowledge of the natural world can help illuminate the glories of its Creator and how the latest developments in physics can help shatter the illusion of materialism **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1973 *Curriculum Review* ,1978 **The Software Encyclopedia** ,1986 **Scientific, Medical, and Technical Books Published in the United States of America, 1930-1944** Reginald Robert Hawkins,1946 Scientific, Medical, and Technical Books Published in the United States of America Reginald Robert Hawkins,1950 Technical Books in Print ,1974

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