

7. **Observe:** Select the ELECTRON CONFIGURATION tab. Make sure the subshells are ordered by Energy, which will arrange them from lowest to highest energy, bottom to top.

Based on what you see, in what order do you think subshells will be filled?

1s, 2s, 2p, 3s, 3p, 4s, 3d, 4p, 5s, 4d, 5p, 6s, 4f, 5d, 6p, 7s, 5f, 6d, 7p

8. **Make a rule:** Next to **Subshells ordered by**, select **Number**. The **diagonal rule** at right shows which subshell will be filled next. To follow the rule, move down along an arrow until you reach the end of the arrow. Then move to the start of the next arrow to the right.



A. Which subshell is filled after 4p?

5s

B. Which subshell is filled after 6s?

4f

C. Which subshell is filled after 5d?

6p

9. **Practice:** Determine the electron configurations of the following elements. Use the Gizmo to check your work. (Note: In some cases, the diagonal rule doesn't work perfectly. If you submit a theoretically correct configuration, the Gizmo will give you the actual configuration.)

Element	Atomic number	Electron configuration
Cobalt (Co)	27	1s ² 2s ² 2p ² 3s ² 3p ⁶ 3d ⁷ 4s ²
Germanium (Ge)	32	1s ² 2s ² 2p ² 3s ² 3p ⁶ 3d ⁷ 4s ² 4p ²
Neodymium (Nd)	60	1s ² 2s ² 2p ² 3s ² 3p ⁶ 3d ⁷ 4s ² 4p ⁶ 4d ¹⁰ 4f ⁴ 5s ²
Gold (Au)	79	1s ² 2s ² 2p ² 3s ² 3p ⁶ 3d ⁷ 4s ² 4p ⁶ 4d ¹⁰ 4f ⁴ 5s ²

10. **Infer:** Select the PERIODIC TABLE tab. Earlier you saw that the transition metals represent the filling of the *d* subshells. Now locate the purple lanthanides and actinides on the bottom rows of the periodic table.

A. How many elements are in the lanthanides series?

14

B. Which subshell is represented by the lanthanides series?

f

C. Which subshell is represented by the actinides series?

f

D. In general, how does the shape of the periodic table relate to electron configuration?

The identical valance electron combinations are present in each column.

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The Top Books of the Year Explore Learning Electron Configuration Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Explore Learning Electron Configuration Answer Key : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Explore Learning Electron Configuration Answer Key : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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