

Chemistry Activity – Electron Configuration – Form 1B ©

NAME: _____ DATE _____ PERIOD _____

To answer each of the following 26 questions, you have to select the appropriate electron configuration from the list at the bottom of the page. On the space provided on the left side of each element, you just need to write the letter of the alphabet that is located next to the correct electron configuration.

- | | |
|-----------------------|----------------------|
| 1. _____ Manganese | 2. _____ Niobium |
| 3. _____ Lanthanum | 4. _____ Scandium |
| 5. _____ Neptunium | 6. _____ Arsenic |
| 7. _____ Copper | 8. _____ Iodine |
| 9. _____ Berkelium | 10. _____ Hydrogen |
| 11. _____ Aluminum | 12. _____ Boron |
| 13. _____ Indium | 14. _____ Iridium |
| 15. _____ Actinium | 16. _____ Rhodium |
| 17. _____ Rubidium | 18. _____ Promethium |
| 19. _____ Chlorine | 20. _____ Thulium |
| 21. _____ Tantalum | 22. _____ Thallium |
| 23. _____ Terbium | 24. _____ Astatine |
| 25. _____ Mendelevium | 26. _____ Fluorine |

LIST OF ELECTRON CONFIGURATIONS

- | | |
|--|--|
| A- $[\text{Ar}] 3d^{10} 4s^1$ | B- $[\text{Ar}] 3d^{10} 4s^2 4p^3$ |
| C- $[\text{Ar}] 3d^1 4s^2$ | D- $[\text{Ar}] 3d^5 4s^2$ |
| E- $[\text{He}] 2s^2 2p^1$ | F- $[\text{He}] 2s^2 2p^5$ |
| G- $[\text{Kr}] 4d^{10} 5s^2 5p^1$ | H- $[\text{Kr}] 4d^{10} 5s^2 5p^5$ |
| I- $[\text{Kr}] 4d^4 5s^1$ | J- $[\text{Kr}] 4d^8 5s^1$ |
| K- $[\text{Kr}] 5s^1$ | L- $[\text{Ne}] 3s^2 3p^1$ |
| M- $[\text{Ne}] 3s^2 3p^5$ | N- $[\text{Rn}] 5f^{13} 7s^2$ |
| O- $[\text{Rn}] 5f^4 6d^1 7s^2$ | P- $[\text{Rn}] 5f^9 7s^2$ |
| Q- $[\text{Rn}] 6d^1 7s^2$ | R- $[\text{Xe}] 4f^{13} 6s^2$ |
| S- $[\text{Xe}] 4f^{14} 5d^{10} 6s^2 6p^1$ | T- $[\text{Xe}] 4f^{14} 5d^{10} 6s^2 6p^5$ |
| U- $[\text{Xe}] 4f^{14} 5d^3 6s^2$ | V- $[\text{Xe}] 4f^{14} 5d^7 6s^2$ |
| W- $[\text{Xe}] 4f^5 6s^2$ | X- $[\text{Xe}] 4f^9 6s^2$ |
| Y- $[\text{Xe}] 5d^1 6s^2$ | Z- $1s^1$ |

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Answer Key

1 - D 2 - I 3 - Y 4 - C

5 - O 6 - B 7 - A 8 - H

9 - P 10 - Z 11 - L 12 - E

13 - G 14 - V 15 - Q 16 - J

17 - K 18 - W 19 - M 20 - R

21 - U 22 - S 23 - X 24 - T

25 - N 26 - F

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