

Periodic Table Bell Ringer – Student Edition

Select the best answer.

1. The orbital notation for boron is:

- a. $1s^2 2s^2 2p^1$
- b. $1s^2 2s^3$
- c. $2s^2 2p^3$
- d. $2s^2$

2. Potassium loses an electron to form the ion K^{+1} . Which is the correct orbital notation?

- a. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$
- b. $1s^2 2s^2 3s^2 4s^1 2p^6 3p^6$
- a. $1s^2 2s^2 2p^6 3s^2 3p^6$
- b. $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$

3. The orbital configuration for aluminium is $1s^2 2s^2 2p^6 3s^2 3p^1$. How many electrons does it have?

- a. 11
- b. 24
- c. 13
- d. 27

4. Name the element with the shorthand notation $[Kr]5s^2$:

- a. Strontium
- b. Calcium
- c. Argon
- d. None of the above.

5. Name the element with the shorthand notation $[Ar]3d^1 4s^2$:

- e. Argon
- f. Scandium
- g. Calcium
- h. None of the above.