Name: _____ Period:_____ Date:_____

Periodic Table Bell Ringer – Teacher 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. $1s^2\ 2s^2\ 3s^2\ 4s^1 2p^6\ 3p^6$
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   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.

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