

Name: _____

Date: _____

Electron Configuration

Determine the electron configuration of the following elements

1. Carbon $1s^2 2s^2 p^2$

2. Calcium $1s^2 2s^2 p^6 3s^2 p^6 4s^2$ or $[\text{Ar}] 4s^2$

3. Palladium $1s^2 2s^2 p^6 3s^2 p^6 d^{10} 4s^2 p^6 d^{10}$ or $[\text{Kr}] 4d^{10}$

4. Xenon $1s^2 2s^2 p^6 3s^2 p^6 d^{10} 4s^2 p^6 d^{10} 5s^2 p^6$ or $[\text{Kr}] 4d^{10} 5s^2 p^6$

5. Gold $1s^2 2s^2 p^6 3s^2 p^6 d^{10} 4s^2 p^6 d^{10} f^{12} 5s^2 p^6 d^{10} 6s^1$ or $[\text{Xe}] 4f^{12} 5d^{10} 6s^1$