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| CHEMISTRY | EMAIL: bui@whsad.org |
| 2015-2016 SCHOOL YEAR | INSTRUCTOR: Ms. Bui |
| CLASSROOM: 510 | LAB ROOM: 506 |

**QUESTIONS TO CONSIDER FOR QUIZ 4**

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| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Grade Earned: \_\_\_\_\_\_\_\_\_\_\_/100 |

1. In regard to the electrons located in the first and second shells, which electrons have more energy
2. What is ground state?
3. How do you determine the number of valence electrons for an atom?
4. What is excited state?
5. How do you determine if an electron configuration is for an atom in ground state or excited state?
6. Does the number of electrons change for an atom when it goes from ground state to excited state?
7. What happens when an electron returns from an excited state to ground state?
8. How can you determine the number of protons if given the electron configuration?
9. If an atom has an electron configuration of 2-4, what does this means?
10. How many shells does an atom have if it has the following electron configuration: 2-8-3?
11. When is energy absorbed?
12. When is energy emitted?
13. Of the two electron configuration, which is excited state and which is in ground state?
    1. 2-8-4
    2. 2-7-5