CIPALITRY UNIT TEST TODICS LIST

Free Response:

- 1. Know the difference between a physical change and a chemical change.
- 2. Know the effect of increasing amount of reactants in a chemical equation and how it effects the number of products.
- 3. Understand that a chemical equation involves the breaking of bonds and creation of new bonds resulting in changes of composition.
- 4. Explain how to tell if a chemical equation is balanced, and the law of conservation of mass.
- 5. Understand what it means for a reaction to be exothermic.
- 6. Be able to balance chemical equations.
- 7. Be able to identify the number of protons, neutrons, and electrons for an element from the periodic table.
- 8. Be able to draw Bohr Models and Lewis Structures.
- 9. Be able to tell if a bond formed between two elements are ionic or covalent, and explain why.
- 10. Be able to write a chemical formula from a bonding diagram.
- 11. Know the trends that occur as you move across rows and columns of the periodic table.

Multiple Choice:

- 1. Atomic Structure (protons, neutrons, electrons)
- 2. Charges on Atoms and Subatomic Particles
- 3. Given atomic mass, determine the number of subatomic particles.
- 4. Know what the atomic mass and atomic number of an element mean.
- 5. Know about isotopes, ions, and new elements.
- 6. Be able to find the number of neutrons in an isotope of an element, given mass and atomic number.
- 7. Know about ions, and how the charge on the ion changes when it gains/loses electrons.
- 8. Know that the charge on an ion is positive if electrons are given up, and is negative if electrons are gained when trying to reach noble gas configuration.
- 9. Ionic vs Covalent Bonds
- 10. Single, Double, and Triple Covalent bonds.
- 11. Diatomic Elements
- 12. Know that valence electrons are the outermost electron orbital, and are involved in bonding.
- 13. Know what a catalyst is.

- 14. Know about chemical reactions.
- 15. Parts of a chemical equation (reactants, products)
- 16. Dissociation Reactions involve breaking bonds in a compound to form two new products.
- 17. Compounds, Mixtures, Elements
- 18. Balancing Chemical Equations
- 19. Signs of a chemical change.

Look at your notes and old quizzes!!!!