

4th Quarter Review

Directions – Answer all questions and make flash cards.

1. How are ions formed?
2. What is the universal solvent? Why is it the universal solvent?
3. How do you know by looking at a chemical equation if a chemical reaction has occurred?
4. What are subscripts?
5. What are coefficients?
6. In a chemical reaction where are the products? Where are the reactants?
7. Balance chemical equations.
8. Explain what happens to table salt when it is mixed with water?
9. Explain density in words. Do not give me the formula.
10. Define endothermic reaction.
11. Define exothermic reaction.
12. Based on the chemical equation, determine if the reaction is exothermic, endothermic, addition, decomposition, single or double displacement.
13. What is a catalyst?
14. What is fission?
15. What is fusion?
16. Is the sun powered by fusion or fission?
17. 2. Differentiate covalent bond and ionic bond?
18. In an ionic bond, which has a positive oxidation number...Metals or nonmetals?
19. Given elements, use the oxidation numbers to determine whether a compound can form.
20. Identify the polarity of the bonds in a water molecule.
21. Compare the density of water at each state with typical trends in density for other substances.
22. Based on the chemical formula, determine if the substance is diatomic molecule or life (organic) molecule.
23. Determine if the Lewis dot diagram of a given compound is correctly drawn.