Name: _____

Box: _____

Solutions & Acids and Bases Study Guide

1. How do you tell the difference between a solvent, solute and solution?

2. Explain the difference between heterogeneous and homogeneous.

3. Why are polar and non-polar substances important in solutions?

4. How does heating affect the solubility of a solid in a liquid?

5. Why does the solubility of a solid increase as temperature increases?

6. How does surface area have an affect on the rate at which something dissolves?

7. Does pressure have an affect on the dissolving of a solid in a liquid? Why?

8. How does temperature and pressure have an affect on the amount of gas dissolved in a liquid? Why?

9. If I have 25g of salt in 500ml of water, what is the concentration of the salt in g/L?

10. If I have 25mg of salt in 5L of water, what is the concentration in ppm?

11. What is the percent composition of a 200 g salt solution that has 15g of salt dissolved in it?

12. What are five properties of acids?

13. What are five properties of bases?

14. What does it mean to dissociate?

15. What does it mean if something ionizes?

16. Explain a neutralization reaction.

17. What is a strong acid? How does it differ from a weak acid?

18. What is an Arrhenius Acid?

19. What is an Arrhenius Base?

20. What does pH Measure?

21. What is the most acidic pH? What is the most Alkaline (Basic) pH?

22. How do you calculate pH?

23. What is the difference between pH and pOH?