Review for Chemistry

MIDTERM 4

1. Be able to read graduate cylinders
2. Know the 3 ways you separate mixtures. ( filtration, distillation and chromatography)
3. When inserting glass tubing into a stopper, hold the glass tubing or rod with a towel and lubricate the bottom before it goes in.
4. Independent and dependent (question, and graph)
5. Accurate and precise
6. Partial pressure using formulas
7. Reading a graph is across and down – line D
8. The mean
9. To find the atomic mass add the number of neutrons to your protons
10. Which value are responsible for the boiling and freezing point of a solvent? The number of solute particles.
11. Know how to draw ammonia, carbon dioxide and methane
12. The triple point is the point where sublimation, freezing and condensation happen at the same time. Or any three different states.
13. If you are asked to find which solution has the highest concentration.. find MOLARITY for all choices and pick the greatest answer.
14. Converting moles to molecules
15. Phases of water graph! Know it PLEASE!
16. The physical process of evaporation, melting requires the break down of intermolecular bonds.
17. How to find the oxidation state and write half reactions.
18. Electrons sit in different energy levels and when get excited they give off light that has different wave lengths.
19. Molarity and gas laws
20. How to write scientific notation / sig fig
21. Metals group 1,2, 13 react best with Halogens group 17
22. The term KILO is equivalent to 10^3
23. Review your naming
24. Find moles from grams to grams.

Good Luck

PROBLEMS:

1. When asked to solve percent error by giving you the actual number in grams/L and for the experimental giving you mass and volume. What to do?
2. GRAMS TO GRAMS
3. GAS LAWS
4. MOLARITY