Answer the following questions AFTER you complete your graph:

1. What were the *solute/s* used in this activity?

2. What is the *solvent*?

3. Which solute's solubility **varies inversely** with the temperature of the solvent?

4. Which solute's solubility **varies directly** with the temperature of the solvent?

5. Using the graph, estimate how many grams (the mass) of ammonia that can be dissolved in 100.0 grams water at 45°C?

6. If you dissolved 10 grams of copper II sulfate in 100 grams of water at 0^0C would it be saturated, unsaturated or supersaturated?

7. How many grams of ammonia could you dissolve in 100 grams of water at 25^0C? (to the point of saturation)

8. If you dissolved 54 grams of ammonia in 100 grams of water at 40^0C would it be considered saturated, unsaturated, or supersaturated? Why?

9. How many grams of copper(II)sulfate would dissolve in 200g of water at 3°C?

10. How many grams of ammonia could be dissolved in 50g of water at 15^0C?