SOLUBILITY CURVE WORKSHEET

Use your solubility curve graph provided to answer the following questions.

 What is measured on the y axis of the solution What is measured on the x axis of the solution According to the graph, the solution of any List the substances whose solution decreases 	ubility chart? ubility chart? y substance changes as changes. ases as temperature increases
5. Which substance is least affected by temperature changes?	
6. How many grams of ammonium chloride (NH4Cl) at 50°C?	
7. and have the same solubility at approximately 78°C.	
8. Which compound is least soluble in water at 10°C?	
9. How many grams of KNO3 can be dissolved at 50°C?	
10. Are the following solutions unsaturated, saturated, or supersaturated?	
a. 45g of NaNO3 in 100 g of water at 30°C.	
b. 60g of KCIO3 in 100 g of water at 60°C.	
11. How many grams of sodium chloride, NaCl are required to saturate 100 grams of water at 100° C?	
12. How many grams of NaNO3 are required to saturate 100 grams of water at 90°C?	
13. How many grams of KI will saturate water at 20°C?	
14. At what temperature would 25g of potassium chlorate (KClO3) dissolve?	
15. At what temperature would 55g of NH4CI dissolve?	
16. 89g NaNO3 is prepared at 30°C.	
a) Will all of the salt dissolve?	
b) What mass of NaNO3 will dissolve at this temperature?	
17. If 25 grams of NH4CI is dissolved at 50°C, how many additional grams NH4CI would be	
needed to make the solution saturated at 80°C?	
18. At 50°C, how many grams of KNO3 will dissolve?	
19. At 70°C, how many grams of cerium (III) sulfate (Ce2(SO4)3) dissolve?	
20. Determine if each of the following is unsaturated, saturated, or supersaturated.	
a. 55g of NH3 at 20°C	

