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constructing a solubility  
curve for  $\text{KNO}_3$  in water.*

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able to identify and understand the key terms: solubility, solute, solvent, solvation, saturated, unsaturated and supersaturated solutions. able to use the solubility curve graph to solve various problems and determine trends in the curve. Connection with the Manitoba Framework of Outcomes ...

Solubility Curve by Alejandra Rivas on Prezi

5. Here is the official solubility data for  $\text{NH}_4\text{Cl}$  in grams/100 mL  $\text{H}_2\text{O}$

30 °C	41.4 g
50 °C	50.4 g
70 °C	60.2 g
90 °C	71.3 g

Plot these points on your graph using a different colour.

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Identify the lines as  
"experimental" and  
"official." Questions: 1.  
From your solubility curve  
determine the solubility of  
ammonium chloride in g/100  
mL of H ...

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Solubility Curve Lab Report  
By: Alejandra Rivas Mr. Jose  
Popoff Chemistry 11th grade  
5/11/12 Introduction The  
solubility of a solute is  
defined as the amount of  
solute that will dissolve in

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*a given amount of solvent to make a saturated solution. The solubility of a substance is*

*Solvation Process of NaCl -  
Northern Highlands*

*When ready the curve of a particular solute, it is important to see at which temperature the solute creates a saturated solution (on the line), supersaturated solution (above the solute's solubility curve), or an unsaturated solution (below the solute's solubility curve). See the illustration below for an example:*

*Lab #8 Solubility Curves -*

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*Solubility is an important  
topic in chemistry. Many  
reactions happen in  
solutions. This lab-based  
lesson is designed to help  
students experience the fact  
that how and whether a  
solution can be made is  
determined in large part by  
the chemical composition of  
the solute and solvent.*

*Solubility Curve Worksheets*

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*We did the lab but my friend  
and I can't figure out a few  
of the questions so here  
they are: 1. If the  
dissolution of a substance  
is exothermic, will the*

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substance be more or less soluble as the temperature is raised??? 2. Indicate how the following would affect the observed solubility curve: a. Evaporation of water: b.

### SOLUBILITY CURVE WORKSHEET

Lab: Solubility Curve of Potassium Nitrate in Water .

Introduction: . Solutions are homogeneous mixtures of solvents (the larger volume of the mixture) and solutes (the smaller volume of the mixture). For example, a hot chocolate is a solution, in which the solute (the chocolate powder) is dissolved in the solvent (the milk or water).

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*Reading a Solubility Curve*  
On a solubility curve, the lines indicate the concentration of a saturated solution - the maximum amount of solute that will dissolve at that specific temperature. The molar concentration of the substance can be calculated, as shown by this example:  
Determine the molarity of a saturated NaCl solution at 25°C.

*Chemistry 30 Solution*

*Chemistry - Solubility  
Curves*

*Construct a solubility curve  
using the mass of solute  
that will dissolve in 100 g*



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*of water at a specified temperature. In this lab, 5 ml of water was used (assume 1.0 g/ml of water). Take the collected data make it proportional to get the solubility of the  $KNO_3$ . Graph temperature vs. solubility using a best-fit curve.*

*Solubility of  $KNO_3$  Lab:*

*Table & Graph |  
SchoolWorkHelper*

*SOLUBILITY CURVE WORKSHEET*

*KEY Use your solubility curve graphs provided to answer the following questions. 1. What are the customary units of solubility on solubility curves? Degress Celsius and*

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grams of solute/100g of water 2. Define solubility. A measure of how much solute can dissolve in a given amount of solvent. 3.

Eleventh grade Lesson  
Solubility | BetterLesson

Purpose: Find

crystallization temperatures for 7 concentrations of  $\text{KNO}_3$  and make a solubility graph

Materials:  $\text{KNO}_3$ , test tube, stir rod, weigh boats, hot plates, thermometer, 10 mL graduated cylinder.

Procedure: -In two test tubes, put exactly 5 mL water in each -Put assigned amount  $\text{KNO}_3$  in each -Heat in hot water bath until dissolved- you...

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*The questions will ask you  
about the characteristics  
and definitions of terms  
related to solubility and  
solubility curves. Some  
questions will ask you to  
identify the false answer in  
the provided ...*

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*Unformatted text preview:  
different substances Q - Why  
do temperatures range from  
0-100°C A - Water is a  
liquid at these temperatures  
Solubility curves tell us  
how much solid will dissolve*

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at a given temperature They also allow certain calculations...Calculations using solubility curves  
Calculations using solubility curves Using fig 2 (pg. 316) 5. 100 g H<sub>2</sub>O is saturated with KClO<sub>3</sub> at 100°C.

Solubility Curve of Potassium Nitrate  
Answer--> A Explanation: See Table G. Steep curves reflect the greatest effect. Solubility curves that change the least (y axis) reflect compounds for which temperature has the least effect. Notice how solubility of SO<sub>2</sub> decreases with an increase in

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*temperature.*

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