Chemistry			
Chapter 16 – l	Properties	of Solution	ıs

Name	
Date	Block

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SALII	itions	
DUIU		

•	A solution is a	mixture.		
•	A	(either gas or solid) is dissolved	d into a liquid.	
•	"Like Dissolves Like"	,		
	0	solutes dissolve best in	solvents.	
	• Fats, ster	roids, waxes into benzene, hexane, to	oluene.	
	0	and ionic solutes dissolve best int	to	_ solvents.
	Inorgani	c salts and sugars into water.		
•	Solutions are conside	red		
•		refers to the maximum amount of	of solute that can	

Dissociation

• _____ compounds break down into their ions.

_____ in a certain quantity of solvent.

- o NaCl to Na⁺ and Cl⁻
- o PbCl₂ to Pb²⁺ and Cl⁻

Solubility Trends

- Solubility of most ______ increases with:
 - o Increase in ______.
 - o Increase in ______.
- Solubility of ______ increases with:
 - o Decrease in ______.
 - o Increase in ______.

Conclusions

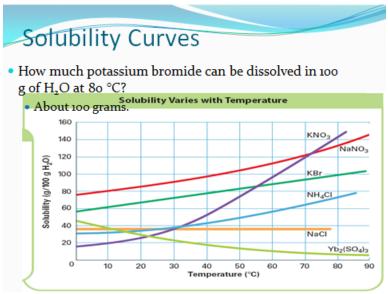
- Solids dissolve best when:
 - Heated
 - Stirred
 - Ground into small particles
- o Gases dissolve best when
 - Chilled
 - Under high pressure

Describing Solutions

- A _____ solution is full of solute.
- An ______ solution is not full of solute; it can have *some*, just not the *maximum*.
- A ______ solution contains more solute than can dissolve (all dissolved); typically these solution have been heated.
 - o *Oversaturated* means having more solute than can dissolve, but the solute is left in the bottom and not all dissolved in solution.

Solubility Curves

- Represent a point at which a given quantity of ______ is ____ at a given _____.
- Example 1



• Example 2

