Review – Liquids		Name		
_	$nol(C_2H_5OH)$ are dissolved it is the percent of ethano			
5.3 7.85	2 × 100 = 2	2.9%) ethan	el by mass	
b. Wha	it is the mole fraction of e	thanol? C.What is	the percent by moles of	ethanol?
GaHSON, H	188/moi 1084/80°	HEAD NE DE	15	1/12/2 2001
2112)+(1.6)+16	1)+10		Na) TIS NOW	
2 If 150 mL of	a 0.5 M KBr solution is dil	uted to 151 what is the	e molarity of this solution	n?
2. II 130 III 01	4 - 10 5 MF (152	Sold Light Maris the	$\sqrt{m_2 = 0.05}$	
	105M/F (155	1 SECML	\	and the state of t
3. How many r	nL of a 0.43 M NaCl soluti	on is needed to make 3.0	0 L of a 0.005 M NaCl sol	ution.
- Xm	(A(0,43M)=(30	Orwani Oraani		
4. How many s	grams of sodium sulfide ar	e needed to make a 75 r	mL of a 0.03M solution?	and the second s
Alas S	0.03M= 255		0,00725333	8 70,1765
2(23)+32= 1/2 /4161	1 1 -7.		;	
5. What is the	molarity of Na <sup>+1</sup> and S <sup>-2</sup> io	ons in a 0.5M sodium sul	Ifide solution?	
	THE STATE OF THE S	<u> </u>		
6. Draw a mod	0.5M $1.0M$ lel of an unsaturated and $0.5M$	a saturated solution of so	odium sulfide. Draw a m	odel of oxygen
gas dissolve	d in water.			
Parties of the Control of the Contro	the state of the s	with the state of	The state of the s	an algority and algority the few or "more fig."
			050	
	han.		~	(A)
		6/	. #	02 (8
D. Activities			5010 100	2 h 5
		100 a (40) and	Dog John	
		(Nat) (Nat)	pasjoline)	
Unsaturated	sodium sulfide S	Saturated sodium sulfide	dissolved	oxygen Joes
	The second secon	shlo in water? Draw a gr		100 July 100
	dition are solids more solu impared to the solubility.	ible III Water: Draw a gro	apir to show the relation	
17- 4	morradus 7	To the		,
W3 10	imperature T, solubility T	37		
,	50 (U.S.U.S.)	v	temp	
8. In what con	ditions are gases more sol	uble in water? Draw a gr	3	iship of each
condition co	mpared to the solubility.	- The		•
4 Them	p, & solubility	3	3	and the state of t
i 1 nrs	sure, Psolubility		No. and the state of the state	Anthe de Water-Spaanscha <sub>llers</sub>
A) , P,	0	temp	press	A. Carpe
9. Review phas	se diagrams and solubility	charts.	₹	
\$ 151	L/G See notes	o on the second	d + determina	1 1
	t 194	18	molarity of a	saturally -
	Temp	د لي	" Solud	7.0%

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## Solutions: Preview

	1.	In the beaker 93,6g of Cu(NO <sub>3</sub> ) <sub>2</sub> is being dissolved in 100mL of water. Draw a rough sketch of
Ju 635=135		the solution. $Cu(NO_3)_2 \rightarrow Cu^{+2} + 2NO_3^{-1}$
N 2×14 = 28 O 6×16= 96 187.5	2.	What is the molarity of the $Cu(NO_3)_2$ ?  "3.69   Mod   Solution   Solution   What is the percent mass of $Cu(NO_3)_2$ in the solution?  What would be the actual number of moles of $NO_3^{-1}$ ions floating in
U610 1755	ash.	19-3-1/875x=0,5md 0.1
87.9	<b>3</b> .	What is the percent mass of $Cu(NO_3)_2$ in the solution? $C_3 = 48.37$ $C_4 = 48.37$ $C_4 = 69$ $C_5 = 69$ $C_6 = 69$
		193.6 × 100 = 48.3% Cally 3/2 8
	4.	What would be the actual number of moles of $NO_3^{-1}$ lons floating in
		the solution? $(24)0_3/2 \rightarrow (24^2 + 2.003)$ (1001)03 $0.5 mol (1.0 mol) N03$
	1	mol NO3) 0.5 mol 0.5 mol 1.0 mol ) NO3
	5.	What is the molarity of the NO <sub>3</sub> <sup>-1</sup> ? $\frac{1000}{1000} = 10 \text{ M NO}_3^{-1}$
		5 10 M NO3
	6.	If you keep adding more and more Ca(NO <sub>3</sub> ) <sub>2</sub> to the solvent the solution will eventually become
		Saturated
	,	What is the early factor that would allow you to actually add more solute per solvent?
	7.	What is the only factor that would allow you to actually add more solute per solvent?  Increace temperature (an Nostz 15 a solid)
	0	In the second chart sketch the relationship between a gas dissolving (molarity) and temperature.
	8.	Label the axis.
		, Gas
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	No.	
3	<b>Y</b>	
	{	
S.	Š	
り	)	
*		+ temperature
	9.	In the chart given, sketch out the relationship between Concentration and % T of light. Label the
		axis.
		Bors
		Bers
	ن	
	S. C.	
	3	

- 10. If another 100 ml of .5M NaOH forming solid Cu(OH)2. Draw a picture of the aftermath.
  - a. What ion is totally removed from the solution?
  - b. What is the concentration of the Cu ion in the new 200mL solution?