SI: Chapters 13 and 14 worksheet

1. Match the following terms with their definition:

1.	A homogeneous mixture of 2 or more substances	a.	solute
2.	What does the dissolving	b.	Aqueous solution
3.	What is being dissolved	C.	Saturated solution
4.	When the solvent is water	d.	solvent
5.	The amount of the compound that dissolves in a certain amount of solvent at a certain	e.	solubility
	temperature.	.	a a la abba a
6.	Holds the max amount of solute under solution conditions	т.	solution
7.	Solution containing a soulute that disassociates into ions.	g.	Henry's law
8.	The solubility of a gas in a liquid increases with increasing pressure	h.	Electrolyte solution

erm Definition		Visual/ example		
Molarity				

Molality	
Dilution	
Osmosis	
Osmotic Pressure	
Mass Percent	
Colligative Properties	

2. What is the mass perce	nt of a solution prepared	by dissolving 3000 mg
of NaOH in 50 grams of v	vater?	
3. What is the molarity of	a 20 L solution that cont	ains 45 grams of
dissolved solute?		
4. What is the molality of	a solution prepared whe	n 80.0ml of a 5.0 M KCl
solution is diluted to a vo	lume of 0.600 L?	

5. What is the freezi	ing point of a solution p	repared by adding 265.0	og of
	entahydrate to 5.00 L o		
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6. Calculate the boil	ing point of a 5.32 M so	lution of sucrose in water	
Chapter 14:			
Term	Definition	Visual	
	Definition	Visual	
Acid			
Base			
Conjugate Base			
Conjugate Base			

Conjugate Acid	
Amphiprotic	
Neutralization	
Titration	
litration	

Term	Definition	Image
Equivalence Point		
Indicator		
End point		
Strong Acid/ Base		

Weak acid. Base	
Acidic solution	
Basic Solution	
Buffer Solution	

Illustrate a	ph scale	e below:
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Math:

1. Calculate the poh of an acidic solution with an H3o+ of 1.456X10^-15