Name _____

What is solution chemistry?

Owning my learning: The learning intentions or goals for the unit are listed below. Completing this table can help you determine what you know and the level to which you know it. Place a check mark in the box that best describes your learning level at the beginning of the learning and after we have learned together. The columns are numbered 1 to 4 to indicate the following levels of proficiency:

1	Emerging	"I'm just getting started."	2	Developing	"I get some of it."
3	Accomplished	"I get it."	4	Extending	"I can teach a friend."

Be honest with yourself as you complete the checklist to filter what you know from what you don't know and remember to study efficiently and effectively, study what you don't know.

I Can Define:

1	2	3	4	
○	○	○	○	solvation, solubility, miscibility
○	○	○	○	solute, solvent
○	○	○	○	soluble, insoluble, miscible, immiscible
○	○	○	○	saturated, unsaturated

I Can Determine:

1	2	3	4	
○	○	○	○	if a molecule is polar or non-polar
○	○	○	○	how much water must be added to a stock solution to achieve the desired concentration
○	○	○	○	the final concentration when a known amount of water is added to the stock solution
○	○	○	○	the amount of stock solution required to achieve the desired concentration
○	○	○	○	the final concentration when the stock solution is diluted
○	○	○	○	the concentration of individual ions when solutions are mixed
○	○	○	○	the limiting ion and the amount of the ions in excess
○	○	○	○	if a double replacement reaction will take place

I Can Write:

1	2	3	4	
○	○	○	○	complete and net dissociation equations

I Can Design/Conduct Experiments to:

1	2	3	4	
○	○	○	○	determine which type of solvent dissolves a particular type of solute (ionic, polar, non-polar)

I Can Calcuate:

1	2	3	4
○	○	○	○

solution problems using the “something about moles, something about volume” and/or the “dilution factor” method

Chemistry 11 – Mrs. Greig