Name		Period	Date
Lab Partner(s):			
AP	Chemistry: Mo	olarity/Solution/	Dilution Lab
Students will be able to: • Determine the amount • Create a dilution from	•	_	olume of specified molarity.
Materials:			
Each student group has acce	ess to:		
Graduated cylinders Beakers Balances, electronic, 0.01-g Weigh boats Plastic wash bottle with dist Screw top bottle (for storage	illed water	Pipettes Hot plates Mortar & Pestl Stirring Rod Scoopula/Spatu Label	
Safety Precautions			
	th soap and water b	efore leaving the l	mical-resistant apron are optiona aboratory. Follow all laboratory s you leave.
Procedure:			
Part A: Make a solution			
MakemL of a	M	solution.	
1. Write the chemical formu	ıla and calculate the	molar mass of you	r solute.
2. Calculate how many gran	ns of your solute you	u will need to make	e your solution.

are finished, y **The label sl	you will need to store hould include: molar	of making your solution, now that your calculations are done. When yo and label your solution in a screw top bottle (located at the front). ity, chemical formula, names of people who made the solution/dilution,
date it was ma	ade.	
Part B: Dilute	e your solution	
Make	mL of a	M of your solution.
1. Calculate t	the amount of solutio	n you will need for the dilution. (Use the dilution formula)

2. Describe, in detail, the process of making the dilution, now that your calculations are done. When you are finished, you will need to store and label your diluation in a screw top bottle (located at the front). **The label should include: molarity, chemical formula, names of people who made the solution/dilution, date it was made.
Clean up:
Bring your bottles to the front and ask your teacher where to store/dispose of them.
Clean all glassware and place on a paper towel at your lab station to dry.
Wipe down the counter tops and wash your hands.