  

1. Prepare 100 mL of a \_\_\_\_\_\_\_ M solution of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . Show your calculations below.
2. Calculate the molality of the solution in problem #1. Show your calculations below.
3. VERBAL What is the solute in problem #1?
4. VERBAL What is the solvent in problem #2?
5. VERBAL What kind of solution is #1, saturated, unsaturated, or supersatuared? Why?
6. Make a dilution of the solution #1 so that the final concentration of the dilution is \_\_\_\_\_\_\_\_ M. Show your calculations below.
7. VERBAL Has the number of moles of solute changed between solution #1 & #2?
8. VERBAL Will this dilution demonstrate the Tyndall Effect? Why or why not?
9. VERBAL Is the water and the dilution miscible or immiscible?
10. VERBAL What colligative property did the salt and ice in the ice cream lab demonstrate?