**Chemistry AP Molarity Formative Assessment** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. You wish to make exactly 100 mL of a 0.375 M NaOH solution. Perform necessary calculations and write a step-by-step procedure needed to prepare this solution. (6 points)
2. Suppose the solution prepared in #1 is added to a 500 mL volumetric flask, which is then diluted to the mark with distilled water. Calculate the molarity of the 500 mL solution. (2 points)
3. Suppose the solution prepared in #2 is added to a 1,000 mL volumetric flask, which is then diluted to the mark with distilled water. Calculate the molarity of the 1,000 mL solution. (2 points)