Chemistry 20 Preparing Solutions Lab

Preparing Solutions Lab

- (2) All in order
- (3) Complete
- (3) Neatly done
- (1) **Title**: appropriate, informative

(2) **Purpose**:

- 1 Part A to learn how to make a solution from a solid
- 1 Part B to learn how to make a solution by dilution

(6) **Background Information**:

- 1 procedure for how to use a balance
- 1 procedure for using a volumetric flask
- 1 procedure for using a pipet
- 1 Use of balance put beaker on balance and reset to zero
- 1 Use of volumetric flask use eyedropper for last bit of water
- 1 Use of pipet clean the pipet before and after use

(3) Materials - picked at random

- 1 Part A clean dry beaker
- 1 Part B 10.0 mL pipet
- 1 Part B 100.0 mL volumetric flask

(5) **Procedure**:

- 2 Calculation of mass required for first solution
- 1 Part A dissolve solute in a smaller amount of water
- 1 Part A invert the volumetric flask a number of times
- 1 Part B transfer the concentrated solution to volumetric flask with a pipet

(3) **Observations**:

- 1 Solution 1 solution is a deep blue colour
- 1 Solution 2 solution is a lighter blue
- 1 Solution 3 solution is a faint blue

(6) Conclusion

- 2 Calculation of concentrations for part B
- 3 solution 1 c = 0.050 mol/L
 - solution 2 c = 0.010 mol/L
 - solution 3 v = 8.0 mL
- 1 Colour of solution indicates the concentration of the solution.

out of **34**

