**Investigating the Benedict’s Test**

**– Results and Conclusions**

**In your lab book:**

1. Make a flow diagram showing how one set of the *serial dilutions* was achieved. Include precautions\* taken to keep the dilutions accurate.\*NOT safety precautions!
2. Make another flow diagram to describe briefly how the readings were taken using the *colorimeter*. Do not include specific details of which buttons were pressed etc. Focus on what was being measured and what this signified.
3. Use your calibration graph to estimate the log10 concentration of the *unknown solutions*. Show how you achieved this by drawing lines on your graph.
4. Use your calculator/excel to convert the log10 value to a concentration.   
   Try the*10x*button on a calculator or =10^() in excel.
5. The Benedict’s test, as used here, had its limitations.   
   From your graph estimate the *smallest and largest concentrations of glucose* which could be reasonably quantified using this method. Give your reasons for these values.
6. How could these limitations *be overcome* in subsequent investigations?   
   NB The answer will be different for either end of the scale.