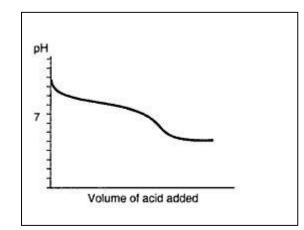
Friday Worksheet

Volumetric 1

1) Explain the difference between the terms end point and equivalence point?



sentences. Weak, strong, conical flask, volumetric flask, pipette, burette, concordant, equivalence point, end point.

Select from the words below to complete the following

a) This is a titration between a _____ acid and a

base.

2) Consider the titration curve shown on the right.

b) The acid is placed in the ______ while the base is placed in the _____.

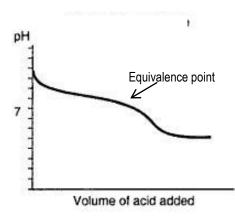
c) Nearing the end of a titration the ______ is reached just before the ______.

d) When washing the glassware with water a student forgot to dry one of the apparatus before using it. Water left in the ______ or _____ would result in no change to the average titre.

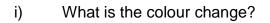
e) When washing the glassware with water a student forgot to dry one of the apparatus before using it. Water left in the ______ would result in a lower average titre.

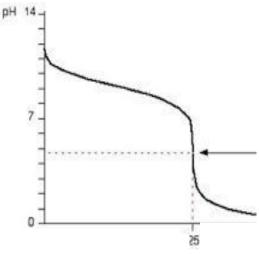
f) When washing the glassware with water a student forgot to dry one of the apparatus before using it. Water left in the ______ would result in a higher average titre.

g) Explain why none of the indicators below can be	Э
used during this titration?	



h) Consider the titration curve shown on the right. Select an appropriate indicator for this titration. Justify your selection.





Name	pH range	Colour change	
		Acid	Base
Thymol blue	1.2-2.8	red	yellow
Methyl orange	3.1-4.4	red	yellow
Bromophenol blue	3.0-4.6	yellow	blue
Methyl red	4.2-6.3	red	yellow
Bromothymol blue	6.0-7.6	yellow	blue
henol red	6.8-8.4	yellow	red
henolphthalein	8.3-10.0	colourless	red