

Methodology:

1. Use the pipette to add 25 cm^3 of alkali (Sodium hydroxide) to clean conical flask.
2. Add a few drops of Methyl Blue indicator and put the conical flask on a white tile.
3. Fill the burette with hydrochloric acid and note the starting volume.
4. Slowly add the acid from the burette to the alkali in the conical flask, swirling the mixture.
5. Stop adding the acid when the end point is reached (the colour changes to Pale yellow from blue). Note the final volume reading.
6. Repeat steps 1 to 5 until you get a consistent reading.

Improvements:

When the titration is complete the remaining hydrochloric acid in the burette should be used from that point, this would reduce the amount of hydrochloric acid used in the experiment. This would all so give more of an opportunity to do more tests and hence improving the overall results.

When using the burette its best to do drop by drop as it will be a waste of time if the point of colour change is passed and cannot be accurately recorded. This would be the same if the solution is not swirled while the hydrochloric acid is being add. The reason for this is that the reaction needs to take place before adding more acid.

