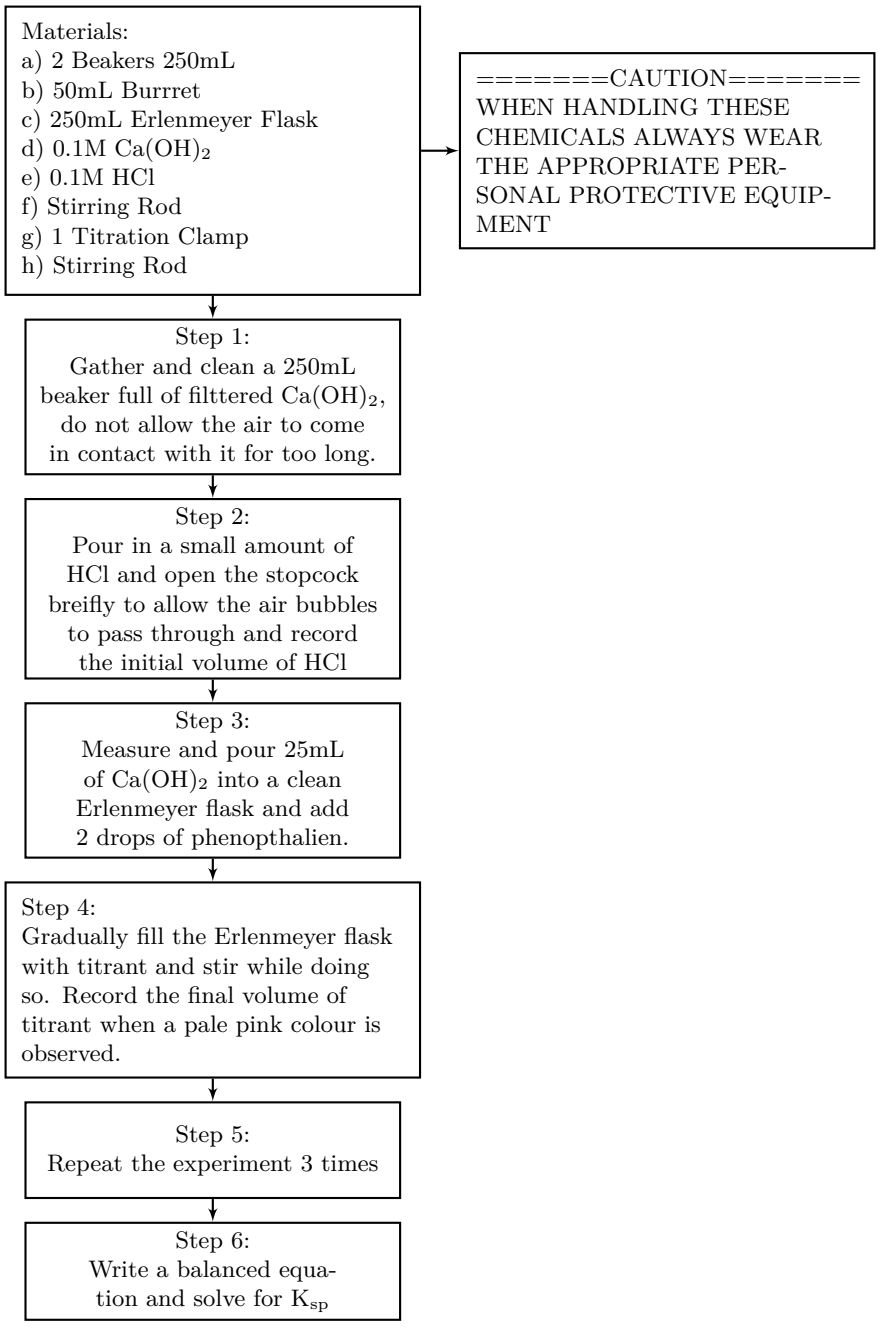
Figure 1: Flowchart of Calcium Hydroxide and Hydrochloric acid Titration



Step 1:
Calculate mols of H^+ ions in the HCl solution:
Step 2:
Calculate mols of OH^- ions in solution at equivalence:
Step 3:
Now calculate concentration of OH^- ions:
Step 4:
Use the concentration of OH^- ions to find the concentration of Ca^{2+} ions.
Step 5:
Use the concentration of OH^- and Ca^{2+} ions to find K_{sp}.

*Phenopthalien is used for the titration because the colour change due to the change of pH is significantly more visible than that of the other indicators.

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