Activity 1: Using a SOP

**Standard operating procedure for:
Producing drug X**

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| Purpose:  |
| To produce drug X: an antacid liquid used in the treatment of indigestion. The drug is made by reacting sodium hydroxide (NaOH)and ethanoic acid (CH3COOH). |
| Scope: |
| To be used by pharmacists, drug preparation laboratory technicians and for quality control in the manufacture of drug X. |
| Responsibilities:  |
| Technician |
| Safety notes:  |
| Eye protection must be worn |

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| Equipment:  |
| Sodium hydroxide (0.1mol dm-3)Ethanoic acid (0.1mol dm-3)PipetteConical flask | BeakerBuretteClamp standEye protectionpH meter |
| Procedure:  |
| 1. Measure 10cm3 of 0.1mol dm-3 sodium hydroxide.
2. Add to a 50cm3 conical flask.
3. Using a funnel to avoid spillages, fill burette with 0.1mol dm-3 ethanoic acid.
4. Place conical flask containing sodium hydroxide under burette.
5. Use the burette to add 25cm3 of ethanoic acid to the sodium hydroxide.
6. Agitate solution for 5 seconds.
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| Links to Other Policies:  |
| CLEAPSS – Student safety sheet 23 Ethanoic acidCLEAPSS – Student safety sheet 31 Sodium hydroxideCLEAPSS – Guidance Leaflet 320 Filling and using a burette |