**Who Killed The Easter Bunny?**

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| --- | --- | --- | --- |
| Icing sugar | Flour | K2CO3 and KCl | Sample A |
| Icing sugar | Flour | Na2CO3 | Sample B |
| Talcum powder | Flour | K2CO3 | Sample C |
| Icing sugar | MgSO4 | Na2CO3 | Sample D |
| Icing sugar | Flour | K2CO3 | Sample E |
| Icing sugar | MgSO4 | K2CO3 | Sample F |
| Talcum powder | Flour | KCl | Sample G |

**All practicals:** splints, spatulas, goggles, appropriate Hazcards.

**Test for sugar**: foil tray, Bunsen burner, tripod, gauze, heatproof mat

**Test for flour**: iodine solution, dimple tile

**Test for carbonate**: vinegar, 7 boiling tubes

**Test for potassium**: flame test wires, Bunsen burner, heatproof mats, 7 watchglasses, dil hydrochloric acid

These tests will reveal Suspects A and E as the murderers.

**Extension** - Test for chloride: Dissolve in distilled water then filter. Treat filtrate with nitric acid (to destroy carbonate) then silver nitrate solution. This will eliminate Suspect A revealing suspect E as the sole murderer

**Safety**: Goggles to be worn at all times. Refer to Hazcards for specific precautions with each chemical.