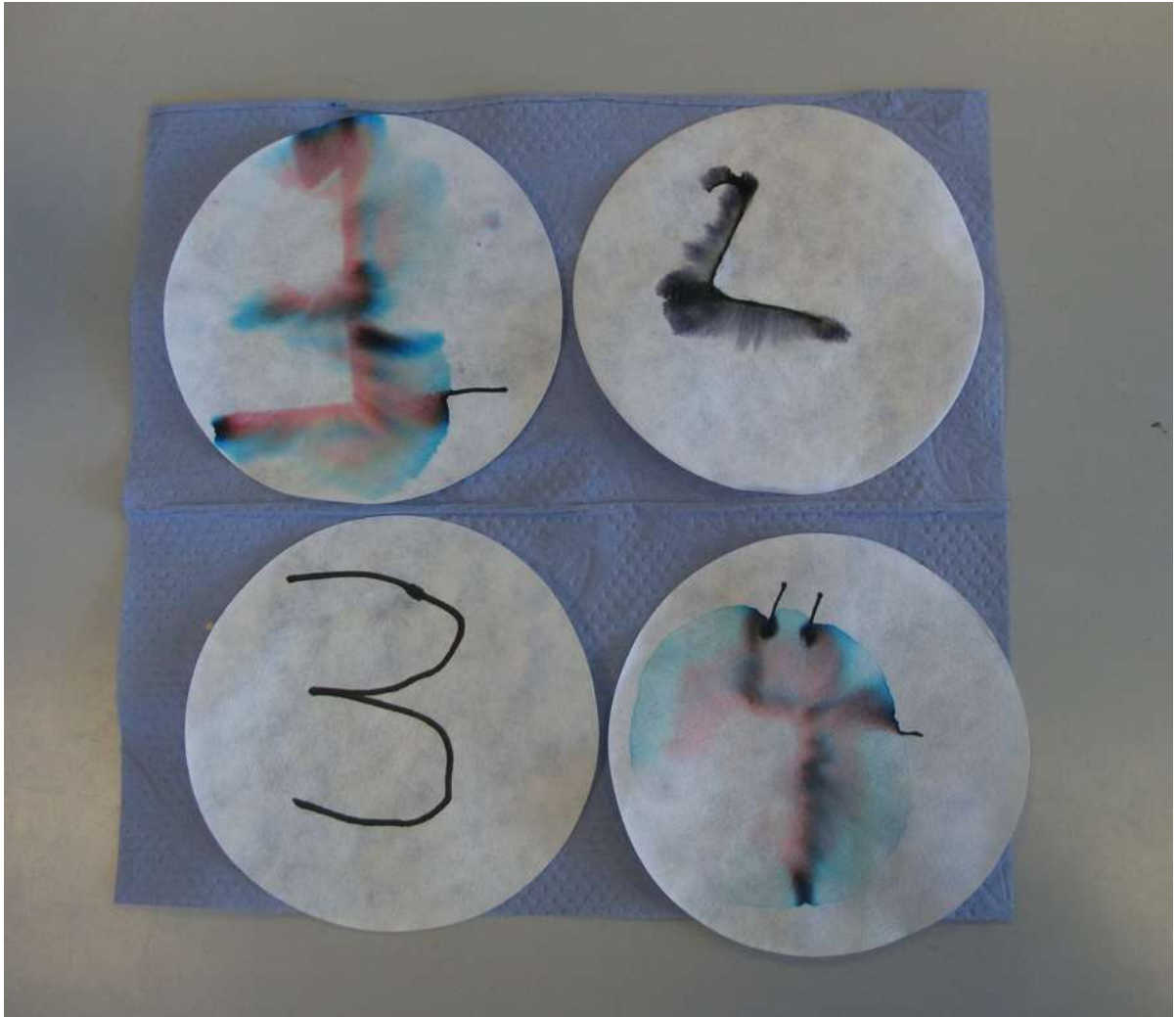




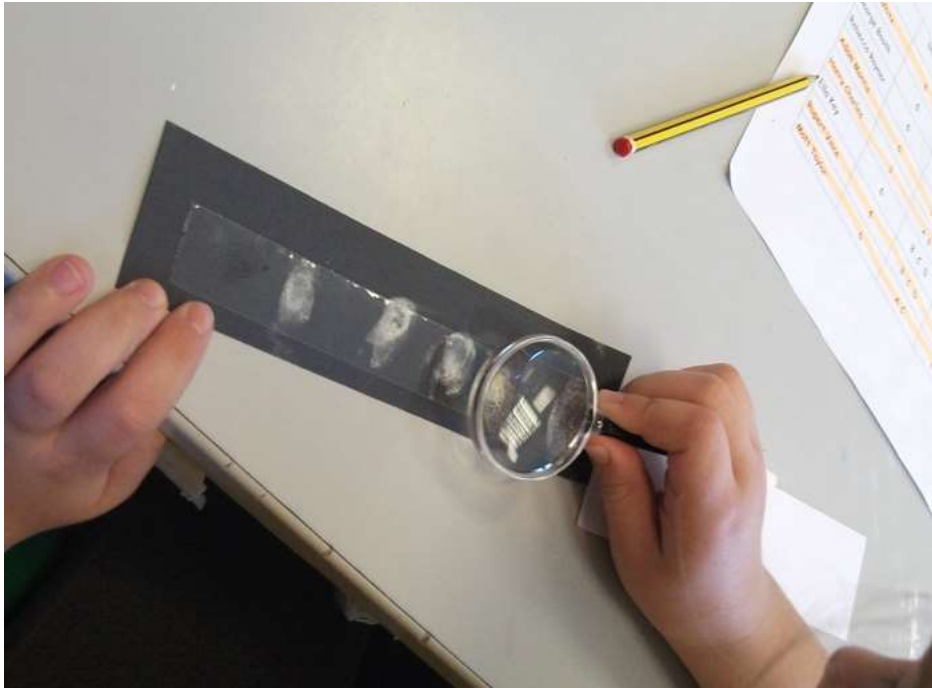
Our first clue was a footprint. We knew the shoe sizes of all our suspects – we just had to work out the right size! Using our own footprints as a measure, we drew around our shoes and compared them to the culprit's. It was more difficult where we did not have a matching shoe size in our sample. However, by careful matching we found out that the culprit was **a size 6.**



Our second clue was that a white powder was found at the scene, that would FIZZ when combined with vinegar. We had a sample size of four powders to test. Using a spatula, we carefully put some of each powder into separate test tubes. We used a syringe to add a small amount of vinegar to each test tube. The only powder that fizzed was **D**; the guilty party therefore must have worked with **powder D**.



A note had been left at the crime scene. By using chromatography we investigated the four possible pens that had been used to see how their colours separated when mixed with water. We then compared these to the note and discovered that they matched **pen 1**; this pen therefore must have belonged to the culprit.



Our final clue was a finger print left on the safe. We had to take our own fingerprints to eliminate us from the list of possible suspects. We then looked at the culprit's fingerprint and matched it to the **loop fingerprint type**.

Out of our eight possible culprits, only ONE matched the following criteria:

- Size 6 shoe
- Worked with powder D
- Used Pen 1

- Had a loop fingerprint.

Our evidence shows that only ELLA KEY could have been the culprit.