# Workstation 2: Chromatography

I can identify a mixture by observing its components.
I can explain how evidence is used to support or refute ideas.

Chromatography is a scientific technique used to find out which chemicals are in an unknown or suspicious mixture.

The police have found some fibres that look like they have come from a jumper at a crime scene. The fibres were caught on the door handle. The police believe that their suspect caught their jumper on the door handle as they entered the crime scene.
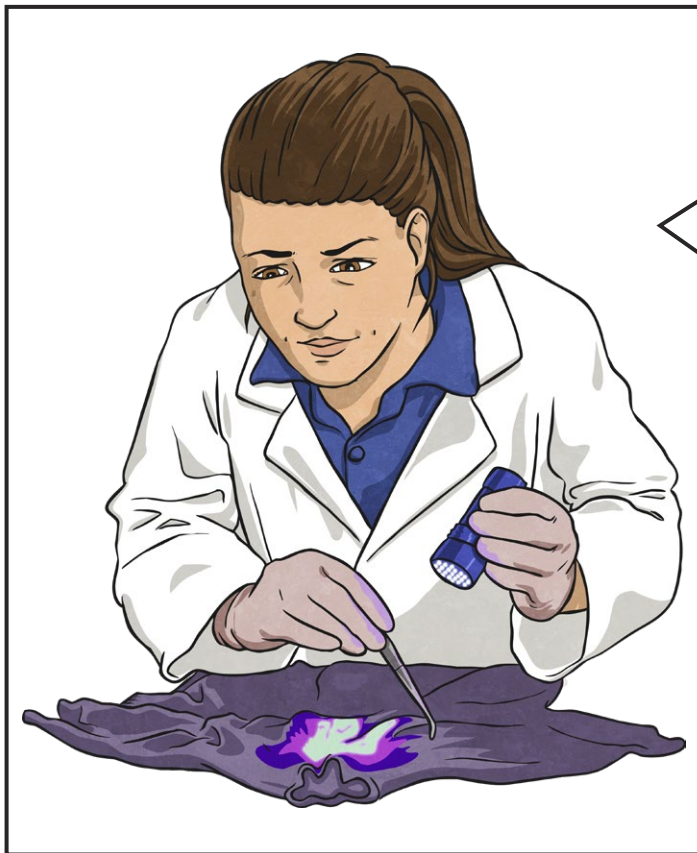
First, I examine the fibres from the crime scene and fibres that I take from the jumper. I use a microscope to look closely at them.

Next, I use a process called chromatography to separate the chemicals that have been used to dye the fibres. I can see that the chemicals in the dye from the evidence fibres and the dye from the suspect's jumper fibres are the same
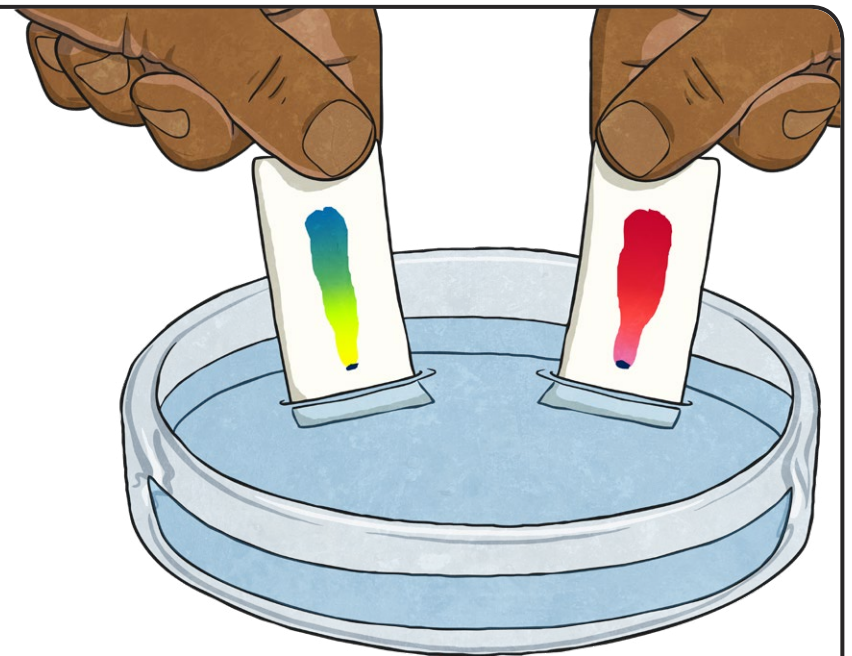
Does my analysis of the evidence **support** or **refute** the police detective's ideas?