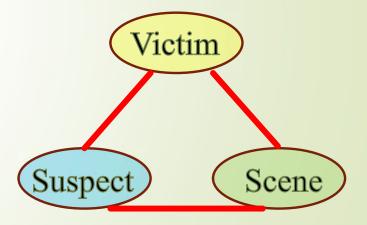
The Chemical Adventures of Sherlock Holmes: Chemistry in Forensic Science

Forensic Science Relating to the use of science and technology in the investigation and establishment of facts or evidence in a court of law

Purpose: Not Just for Identifying Things! Aid in Reconstructing Events and Human Activities

Link between the victim and a suspect, a victim and scene or the suspect and a scene.



Forensic Science Techniques – Chemistry

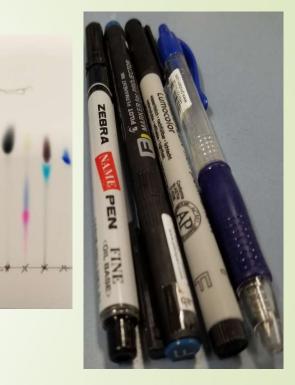
>Elements, compounds, and mixtures

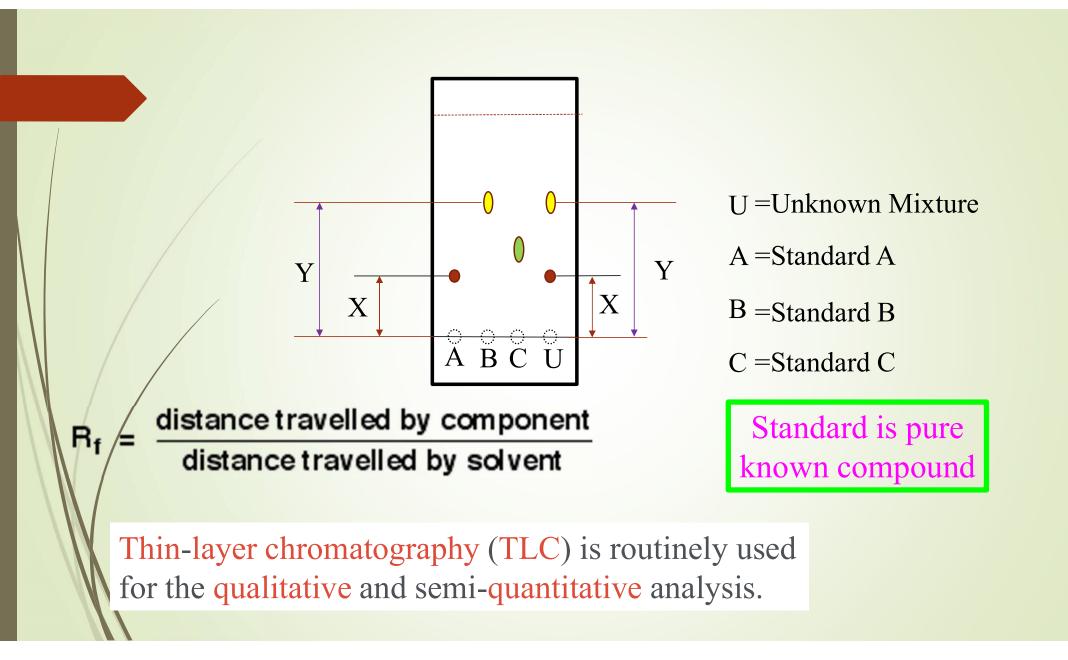
- Toxicology
- Drugs and poisons
- Polymers

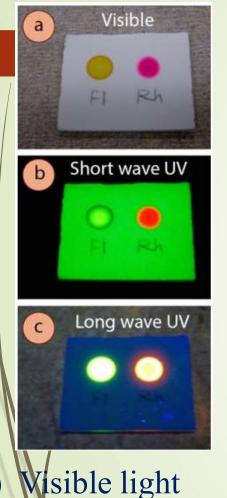
Analysis of ink (chromatography)

CDrug analysis

- Chemical reactions
 - Arson/Explosive analysis
- ≻Thermochemistry
 - Arson
 - Identification of unknown metals







- a) Wisible lightb) 254nm UV light
- c) 365nm UV light

- Some compounds themselves fluoresce, appearing a variety of colors when exposed to UV light.
- They are most common with highly conjugated compounds



