

At a crime scene, a person was found dead,
and the police discovered the following letter.

What actions do
you think they
would take next?

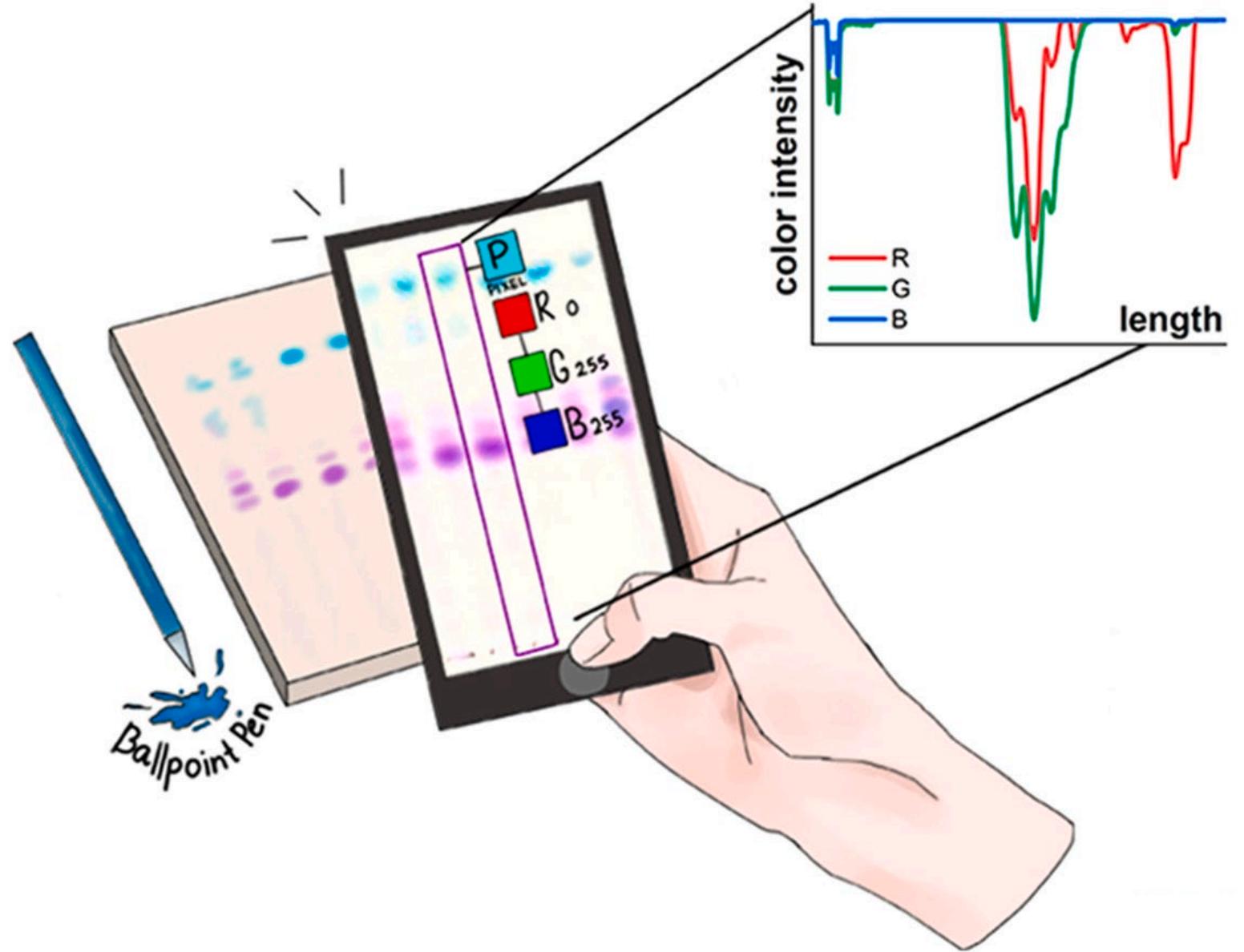


Dear Sir / Madam,
Someone is trying
to kill you.

*Forensic
Significance of
Ink Analysis
in Crime
Investigation*

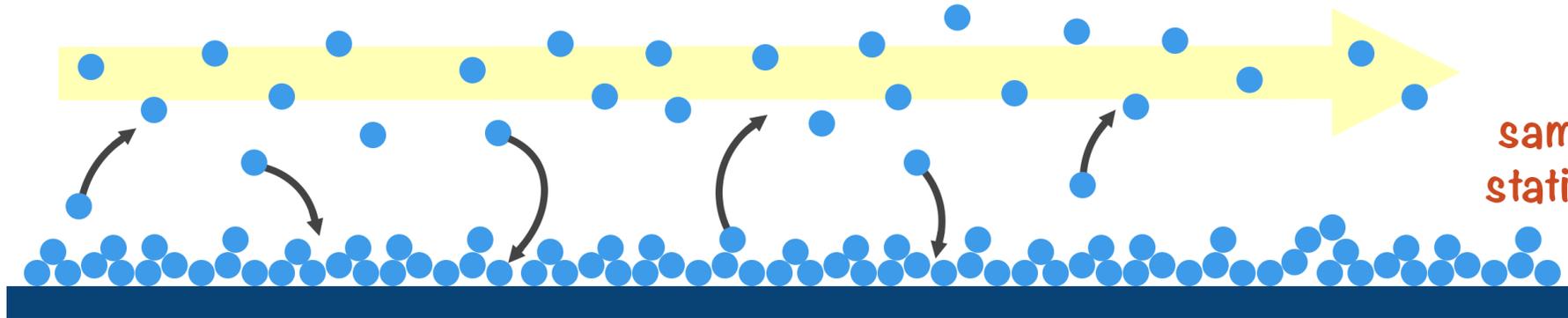
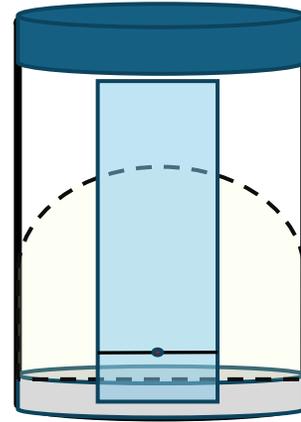


Analysis of Ink by Thin Layer Chromatography



Mobile Phase

sample able to move

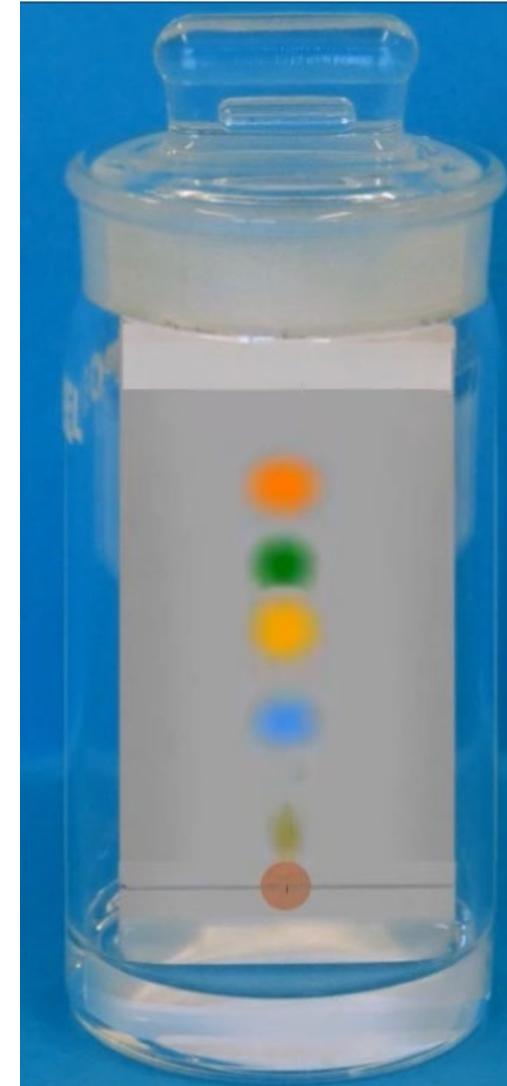
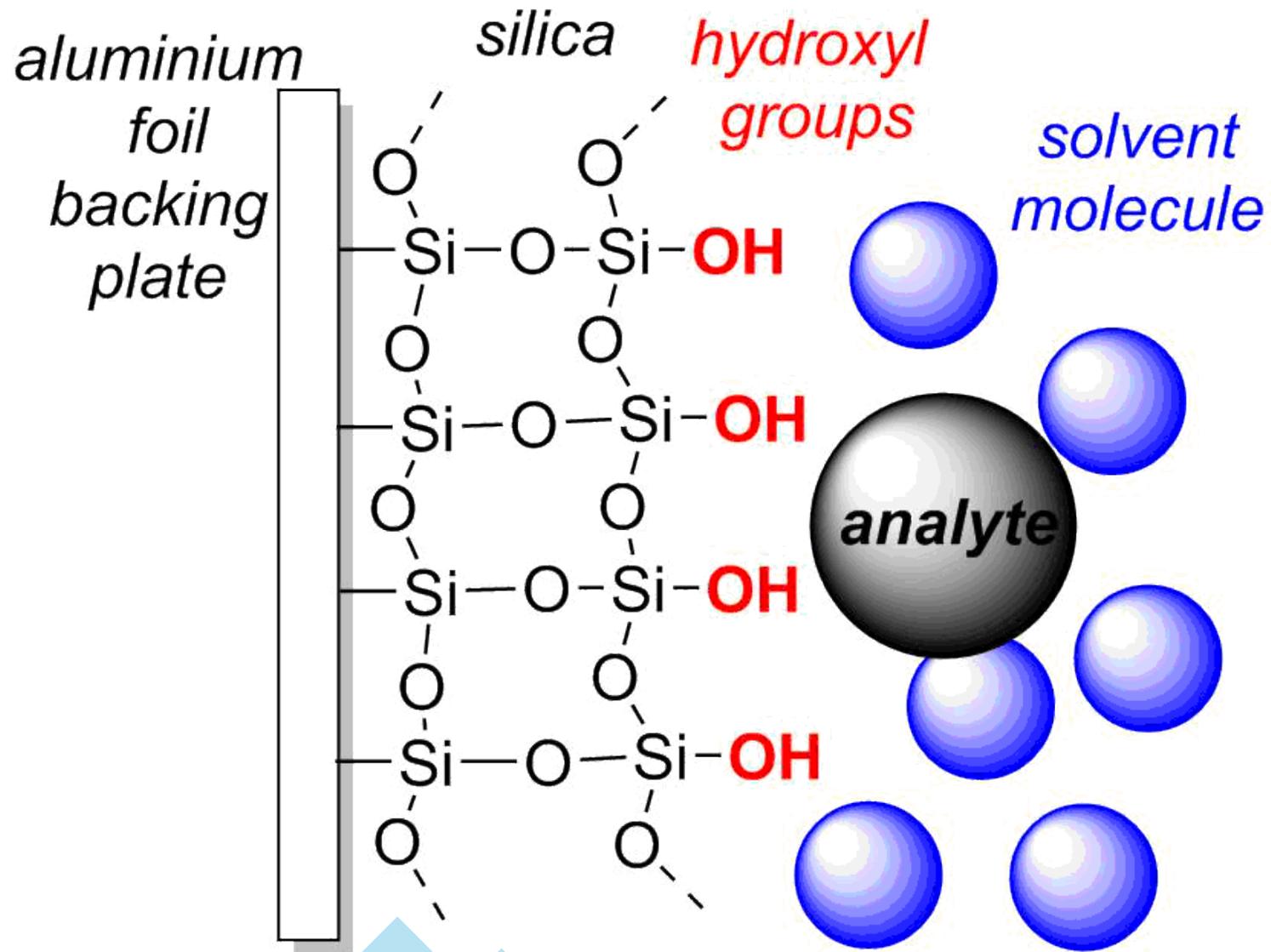


sample spends time in both stationary and mobile phase

Stationary Phase

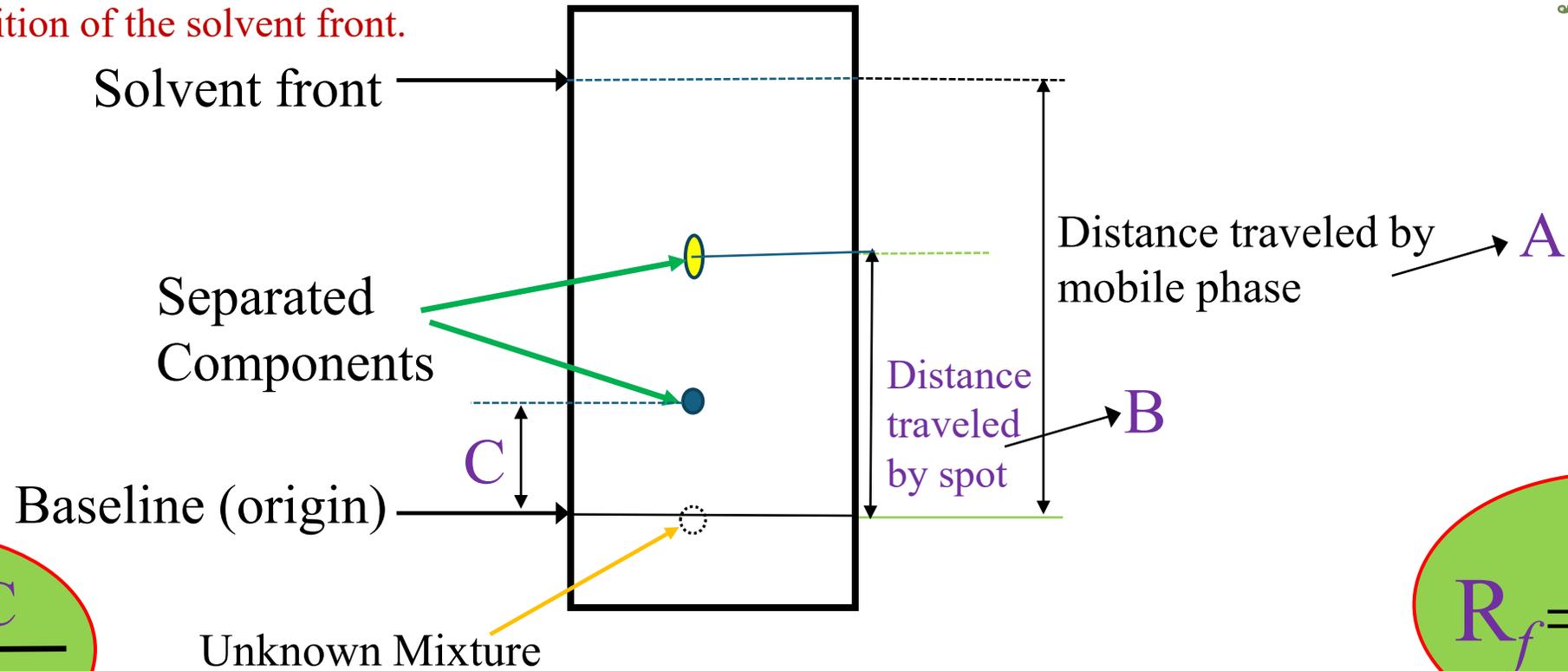
sample unable to move





Determine the R_f value

Mark the solvent front quickly as the mobile phase evaporates very quickly and leaves no trace of the position of the solvent front.



$$R_f = \frac{C}{A}$$

$$R_f = \frac{B}{A}$$

$$R_f = \frac{\text{Distance traveled by spot}}{\text{Distance traveled by mobile phase}}$$

Demonstration

