#ScienceAtHome #Scien

Chromatography

Author: Adapted from this Twitter thread

Description: Chromatography is the separation of substances in a mixture. The word "chromatography" is derived from the Greek words "chroma" for color and "graphy" for writing or recording

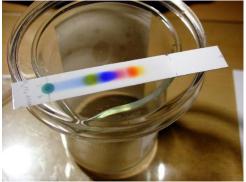
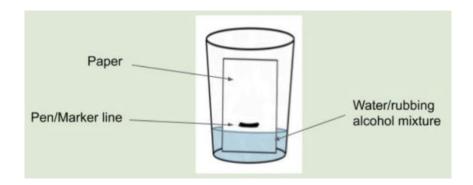


Image by Natrij.

In paper chromatography, separation usually involves a liquid mobile phase & solid stationary phase (here, paper). Depending on substances' greater affinity for either the stationary or mobile phase, substances will separate.

Materials:

- Paper
- Scissors
- See-through cup
- Sharpie or colored pen/marker
- Water
- Rubbing alcohol



Procedure

- 1.) Cut the paper into a strip to fit into the cup.
- 2.) Pour water and rubbing alcohol into the cup in a 1:1 ratio. Pour enough to make a depth of 1 inch.
- 3.) Draw a line using pen/marker parallel to the water on the strip of paper, but high enough to be above the liquid layer when the paper is placed into the cup.
- 4.) Place strip into the cup and cover the cup to slow down evaporation.
- 5.) Watch the ink separate!

