

Separating Mixtures Laboratory: Veatta Berry

Students' Guide

Goals

- To achieve a certain level of knowledge regarding chemistry concepts
- To learn the ways of scientific investigation: asking questions, discovering, and concluding

The Laboratory

In this laboratory, you will experiment with paper chromatography of colorful markers. You will investigate various conditions and trials.

Materials for Each Group

- Vis-a-Vis black marker
- Different markers in different colors and different brands
- Test tubes in well plate or test tube rack
- Chromatography papers
- Pencils and rulers

Instructions

Cut a piece of chromatography paper an inch longer than the test tube that you are going to use.

Stand the test tube in the well plate.

Put about 2 cm of water in the test tube. This is going to be your solvent.

Measure the water level with a ruler.

Draw a line with a pencil on the chromatography paper, just a little above the water level (pencil doesn't run when it touches water).

Right at your pencil line, put a small dot of your marker.

Insert your chromatography paper into the test tube.

Pull out the paper from the test tube when the water line reaches half an inch from the top.

Put it on a paper towel to dry out.

Do at least one Vis-a-Vis black marker, and more test tubes with other markers that you choose.

Make and register about ten observations in the following table.

Investigate: different types of the same colored markers, different colored markers from the same company, etc.

