



CHROMATOGRAPHY

What is Chromatography?

Chromatography is the separation of a mixture.

During the process of chromatography, the mixture is dissolved in a fluid. This fluid carries it throughout a structure. The different components of the mixture travel at different speeds which causes them to separate. This method is used by scientists to break apart compounds in order to study them.

The Coffee Filter Experiment

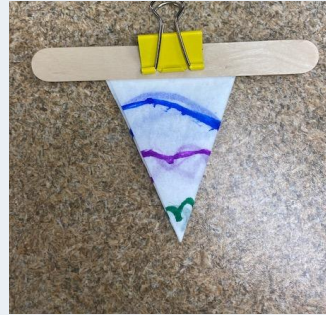
Today's experiment involves coffee filters and washable markers. Marker inks are made up of different types of dyes and each dye has different chemicals in it. These dyes are compounds. When the compounds are spread with water, they separate. Some of the colors will spread more gradually while others will spread quicker!



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Supplies

- Coffee Filters
- Washable Markers
- Binder Clip
- Popsicle Stick
- Jar or cup of water
- Paper towel



Procedure

1. Start off by drawing circular patterns on your coffee filter with the washable markers. Try out a couple different colors!
2. Fold the filter in half four times.
3. Attach the popsicle stick to the top of the filter with the binder clip.
4. Dunk the filter into your cup of water, just the tip should be touching the water. It will spread to the rest of the filter.
5. Let dry on the paper towel

