

STEM



Chromatography

Plan

1. Investigate the science of colours and how different colours are produced. Consider primary and secondary colours.
<https://www.kidzone.ws/Science/colorwheel.htm>
2. Decide what colour pens you would like to investigate and hypothesise what colours the colours you have chosen for your experiment might be made up of.

Do

1. Set up the experiments using the method outlined here:
<https://www.youtube.com/watch?v=08YMBGS1pYU&t=35s> (first 35 seconds).
2. Record the reactions and what colours are produced from each pens.

Review

1. Evaluate your hypothesis. Did pens produce the colours you thought they would? Why or why not?
2. What other liquids could work to separate colours? Would these improve the separation?
3. Where else can you find colours that may separate in this way? You can find some ideas here: <https://kidminds.org/chromatography-experiments-with-kids-5-ways/>

Variations

- Papers and liquids can be substituted as per what is available.
- Find out if different brands of the same colour separate differently?
- Turn it into an art project and make butterflies:
<https://buggyandbuddy.com/chromatography-butterflies-separating-colors-in-markers/>