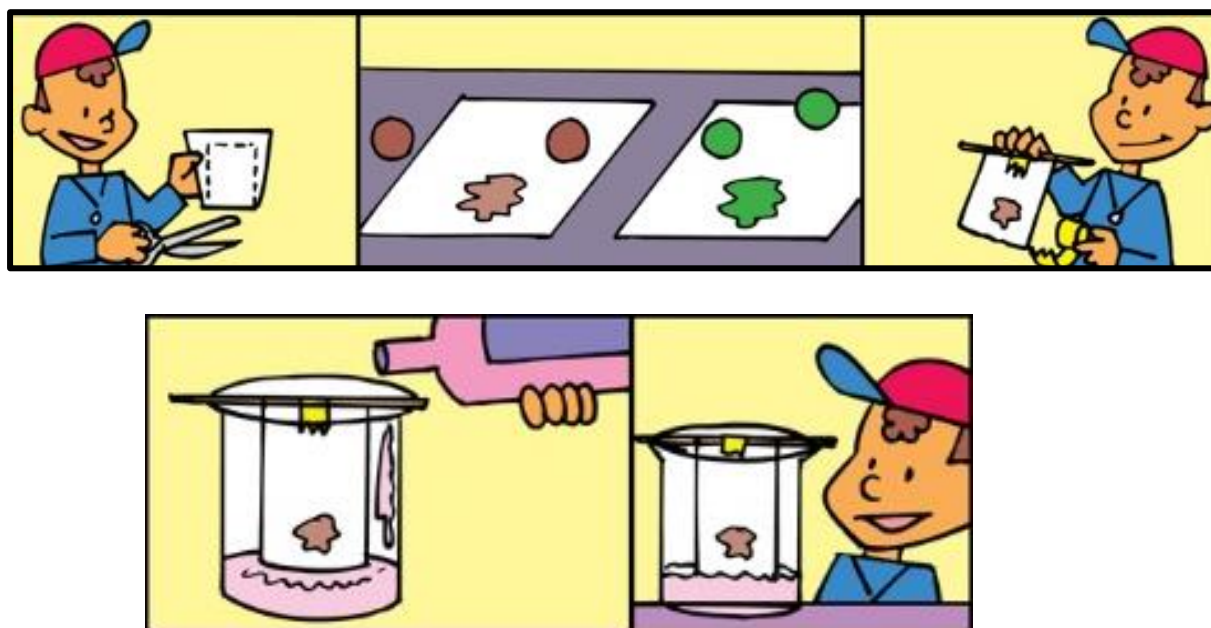


Module 17: Task 2 Opportunities for involving children in assessment *chromatography investigation*



<http://www.expeditionchemistry.nl/snoepjeschromatografie/>

Materials:

- White coffee filters
- Markers (not water proof) (or M&M's)
- Glasses of water
- Scissors
- Tape
- Skewers
- Water

Experiment:

1. Take the coffee filter and cut out a piece of 4 by 7,5 cm.
2. Make the brown and green M&M a bit wet and make a stain on the paper about 1 cm above the bottom. You can also make a stain with a marker instead of the candy.
3. Tape the pieces of paper on a skewer and place the skewer on top of a glass.
4. Poor water in the glass so the paper just touches the water.
5. Look what happens.

Explanation:

Ink is generally made up of a mixture of different colours. Chromatography is a process to separate ink into its individual colours. You can see the brown colour is a mixture of red, blue and a bit of yellow. The green is a mixture of yellow and blue. The colours that dissolve in the water better, go further up on the coffee filter. This way the colours are separated.

There are a lot of descriptions of this experiment on the internet. You can choose one of the links below for more information on chromatography.

- https://www.exploratorium.edu/science_explorer/black_magic.html
- <http://www.hometrainingtools.com/a/chromatography-science-project>
- <https://www.youtube.com/watch?v=8uFLOQ18Mt8>