## Chromatography Flowers

## Objectives

- Observe the process of Chromatography (separation of mixtures)
- Identify which colors make up the color black

## Duration

❖ 30 min

Material	Quantity
Mr. Sketch Markers	1 Pack
Beaker	1
Eye Dropper	1
Coffee Filter	3
8.5 x 11 White Paper	6 Pieces
PencilCrayons	1 Pack
Water	1 cup

## Procedure

- Explain that sometimes chemists have to separate mixtures. For example: separating proteins out of mixtures.
  This process is called Chromatography.
- Ask your child what colors make up the color black? Today, we willfind out!
- 3. Give your child a coffee filter, beaker, eye dropper and black marker.

- 4. In the center of their coffee filter, have them draw a dotted outline of a nickel with the black marker. See the image to the right.
- Now, have them place their coffee filter with the dotted black circle on top of an empty beaker to elevate it.
- 6. Using an eye dropper filled with water, have them drop 5 drops of water in the center of the filter.
- Now observe what happens to the black ink. They should see the colors separate.
- 8. Set the first filter aside and let it dry. Label it "black marker".
- Follow the same process with a brown marker, green, pink, etc. Allow your child to be creative in seeing how colors will separate.
- 10. See the example to the right on how your child can think outside the box and use multiple colors.
- 11. Once your child has made a few different flowers, discuss what trends they noticed. Which markers/colors produced the most colorful flowers? Why or why not? Etc.
- 12. Allow your child to cut out their favorite coffee filter flowers and glue it onto a piece of paper. They can color/decorate this paper to look like a real flower as they wish. See the picture above.



