Laboratory 3 - Paper Chromatography

- Purpose: To separate the chemical components of a mixture

- Materials:
  - 1 large Plastic cup
  - tap water
  - 4 pieces of filter paper
  - 4 markers for testing (share with other groups)
  - 2 food coloring mixes for testing
  - 4 small pieces of masking tape
  - Pencil (to attach to the top of the filter paper)
  - Timer

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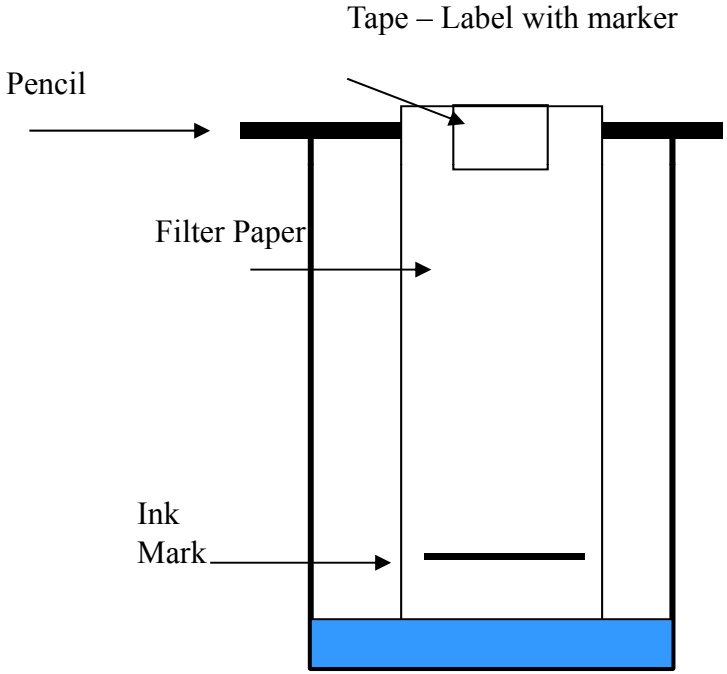
- Write the pen color or food coloring mix on a piece of masking tape with a permanent marker and place it at the top of the strip.
- Choose one of the testing markers and draw a thick line near the bottom of the filter paper - about ¼ inch from the bottom. Everyone should use a black pen and a green pen then one or two others of your choice. For the food coloring mixes, get a drop from Mr. Adolfo.
- Pour a small amount of water into the large cup and then hang the paper strip in the cup. Make sure the ink line or the food coloring drop does not touch the water – only the bottom of the filter paper.
- Allow the water to move up the paper for 5 minutes and then remove the strip from the water. Hang it on the side of the table to dry.



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Complete the chart on your worksheet and then answer the questions.

Work with your group to test 4 markers and record your results below.

Marker #				
Colors observed in ink sample				

Questions:

What colors did your group observe in each of the ink samples?

Do the colors occur in the same order on all the samples? Explain.

Did some ink samples not work? Why?