

LET'S DO CHEMISTRY

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# Chemistry is Colorful

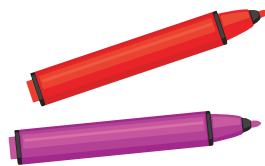


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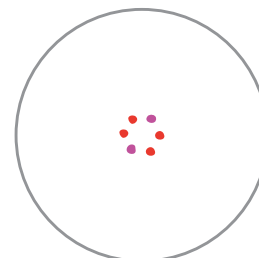
## Make a colorful pattern

Choose two different colored markers and create a small design on a filter paper disk. *Do not use a black marker this time!*

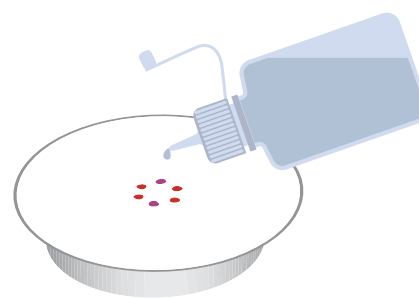
Place the disk onto a white lid and use a dropper bottle to squeeze a few drops of water onto the filter paper directly over your design. What happens to the ink as it mixes with the water and moves on the paper? Compare the two colors. How are they different?



Simple circular designs work well.



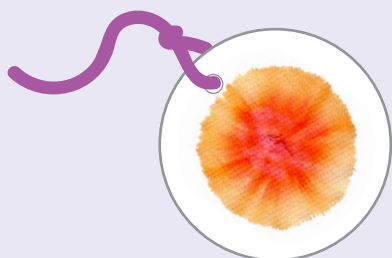
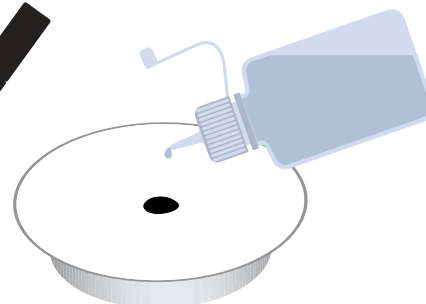
It is best if one color is a primary color (red, yellow, blue) and one is a secondary color (purple, green, orange).



## Solve a mystery!

Now choose one of the three black markers. Make an eraser-sized circle in the center of a new piece of filter paper and fill it in. Place this disk onto a lid and add a few drops of water. Now what happens? What colors do you see?

Compare the filter paper pattern, or *chromatogram*, that you made with the black marker to the mystery chromatograms labeled "A," "B," and "C." Which mystery chromatogram matches yours? Check your guess by flipping the filter papers up.



**Let's keep exploring!** Turn your chromatograms into bookmarks or hanging decorations. Punch a hole in one edge and tie a piece of yarn through the hole. They should dry quickly as you continue your day.