

**Assignment:** We will continue our unit: Introduction to Chemistry! Here, you will learn more about mixtures and how we can separate them. The next assignment of this chapter can be found in this document. You will be sent reminders through the Remind App to keep you on track.

**ASSIGNMENTS ARE DUE BY: by midnight on Thursday 4/2.**

### **Assignment 6: Introduction to Chemistry: How can we separate a mixture?**

**Assignment:** You will perform a mini experiment at home! To do this, you will need to gather some materials from around your house. Once you have your materials, you will perform the experiment, take a photo of your results, and create a FlipGrid video to explain your conclusion.

Materials:

1. Paper towel or coffee filter
2. Water
3. Cup
4. Pencil
5. As many markers as you can find in your house (different brands and/or colors. **Black markers work the best!**). *Mrs. Ruber's dog (Rosie) helped find some markers (and pens, but they don't work well so try to find markers!).*

#### Procedure:

1. Pour a small amount of water into a cup (you only need enough water to lightly cover the bottom).
2. On your paper towel or coffee filter, draw a line IN PENCIL a few centimeters from the bottom.
3. IN PENCIL, assign each pen/marker a letter (ex: if you have 4 markers, one will be A, one is B, one is C, one is D) and write these letters (**in pencil**) a few centimeters apart from each other. See *example*
4. Take marker A and make a dot on the pencil line where you wrote the letter "A." The dot should be as dark as you can make it.
5. Repeat step 4 with the remaining markers you have. Try to make all of the dots the same size.



6. Lower the paper towel or coffee filter into the cup with the water. **You only want the bottom of the paper to touch the water! All of the dots should be ABOVE the water line.**
7. Let the paper sit in the cup of water and observe what happens. It should only take a few minutes to get results.
8. Take the paper out of the cup and let it dry.

#### Flip Grid Results & Conclusion:

1. In a Flip Grid video you will answer the following question:

**Is ink a homogenous or heterogenous mixture?**

Your answer should be in the form of a CER.

- a. Claim: State an answer to the question: is ink a homogenous or heterogenous mixture?
- b. Evidence: show and explain what you observed in your experiment
- c. Reasoning: Explain how the evidence supports the claim. Your reasoning should be a thorough explanation of which type of mixture you believe ink to be.

( If you would prefer to submit a written CER instead of a flipgrid video or are having trouble with flipgrid, you may share a google document with [asparaco@roslynschools.org](mailto:asparaco@roslynschools.org) or [sguthrie@roslynschools.org](mailto:sguthrie@roslynschools.org))

#### **Helpful hints: READ BEFORE GOING TO FLIP GRID**

- Your video can be no longer than 3 minutes.
- You should plan out your CER *before* you start filming!
- To create your video, click on the giant green button and it will allow you to record (you can use a computer or your phone -- there's a flipgrid App). you will have 3 minutes to explain your experiment.
- To get to the flipgrid site, use the link below. <https://flipgrid.com/e30732b2>
- *If you need assistance using flipgrid go to the last page of this document.*

#### **Assignment Checklist:**

To verify you are done, you should have done the following:

1. Chromatography Flip Grid Video





The assignment will be posted on the Portal. If there is a checkmark or "Co" symbol, that means they have been submitted and collected. If you see --, an "Mi," or it is blank, that means they were not submitted.

## Help Using Flipgrid:

- This video walks you through submitting a flip grid if you are struggling: <https://vimeo.com/398016659>
- If you would rather read about how to use flip grid, see below:

## How to submit a video to the Grid:

After selecting the green plus, complete these 4 easy steps to submit!

1.  **Tap to record**  
Tap the record button on the bottom to start. Add fun stickers, filters, text, and more. Tap the arrow on the bottom right to advance.
2.  **Review your video.**  
Trim, rearrange, or add more. Tap the arrow in the bottom right to advance.
3.  **Take a selfie!**  
The selfie will be the cover image for your video. Tap the arrow in the bottom right to advance.
4.  **Submit your video!**  
Edit your name, add a title, or attach a link. Then submit!