ASSIGNMENT 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). *Mrs. Ruber's dog (Rosie) helped find some markers (and pens, but they don't work well so try to find markers!). If you can't find any markers, please e-mail your teacher(s).*

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 minute or two to get results.

8. Take the paper out of the cup and let it dry.

Flip Grid Results & Conclusion:

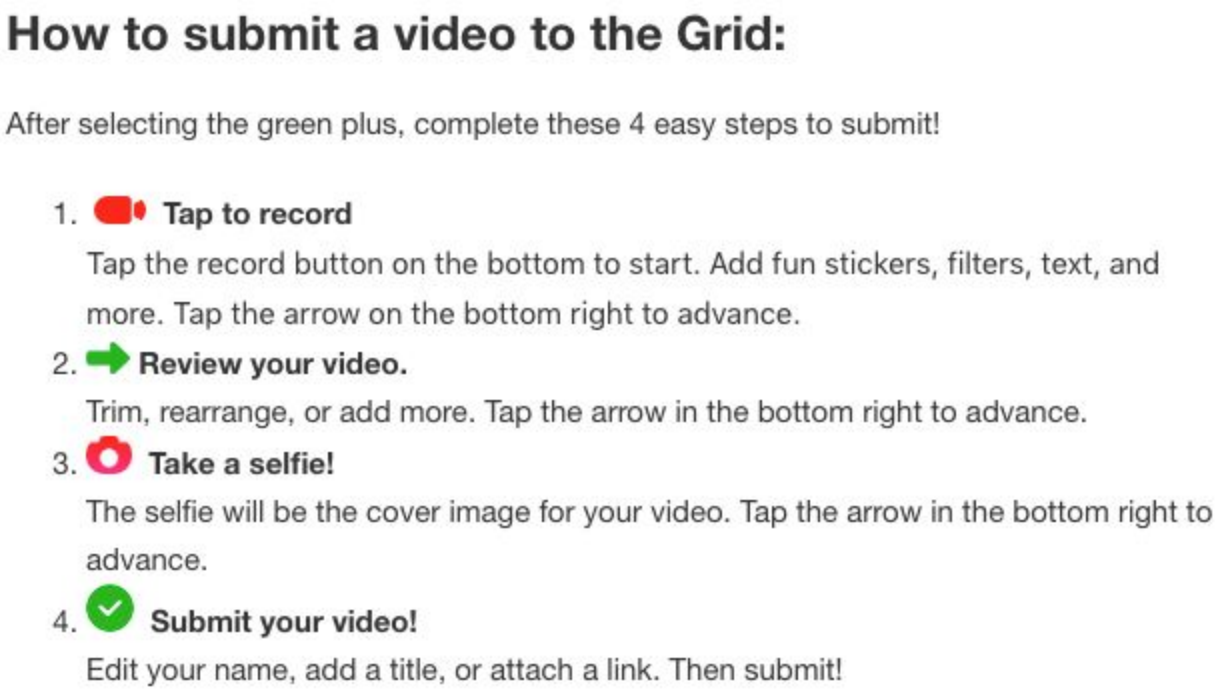
1. In a Flip Grid video you will answer the following question: **Is ink a homogenous or heterogenous mixture?** Your answer should be in the form of a CER
    a. Claim: State an answer to the question: is ink a homogenous or heterogenous mixture?
    b. Evidence: show and explain what you observed in 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.

TO SUBMIT YOUR VIDEO: https://flipgrid.com/762e2bb1

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.
    - 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!

To get to the flipgrid site, use the link below.
https://flipgrid.com/762e2bb1

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.