Assignment: We will continue our unit: Introduction to Chemistry! Here, you will learn more about mixtures and how we can separate them. The next 2 assignments 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: Today 3/31 by midnight.

Assignment 4: Watch the Slide Show on Heterogeneous and Homogeneous Mixtures. The link is attached below.

https://www.youtube.com/watch?v=Zq6WuZAmd3k&feature=youtu.be

Assignment 5: Virtual Lab Introduction to Chemistry: Virtual Mixtures, Elements, and Compounds Lab

Assignment: Complete the lab using the website provided. You will need **flash player** to complete online. If you are unable to use flash player on your device, all of the pictures/data/instructions are attached to the end of this document (will be located after the assignment checklist at the end of this document). You will complete the lab from the tutorial and record all responses on a Google Form. It is best to open two windows or tabs ... one for the lab, one for the Google Form so you can use both at once. The instructions are on the lab website itself.

LAB:

https://my.hrw.com/sh2/sh07_10/student/flash/virtual_investigations/hst/mix/hst_mix_vi.html

GOOGLE FORM TO RECORD RESPONSES: https://forms.gle/Hdx7ELrKAz8UEMxZ7

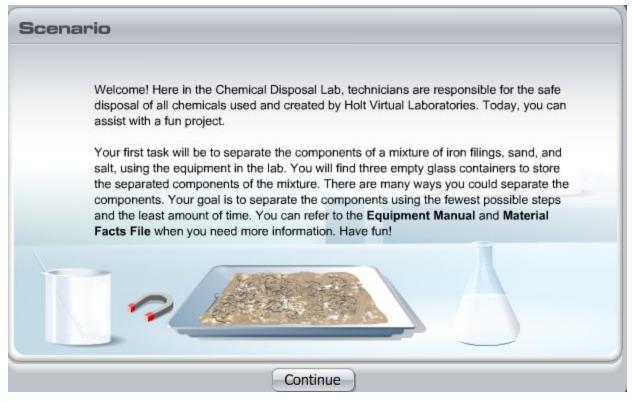
Assignment Checklist:

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

- 1. Watched the Slide Show on Heterogeneous and Homogeneous Mixtures
- 2. Separating a Mixture Google Form

These assignments 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.

Below is the information for assignment #2 if flash doesn't work on your device.

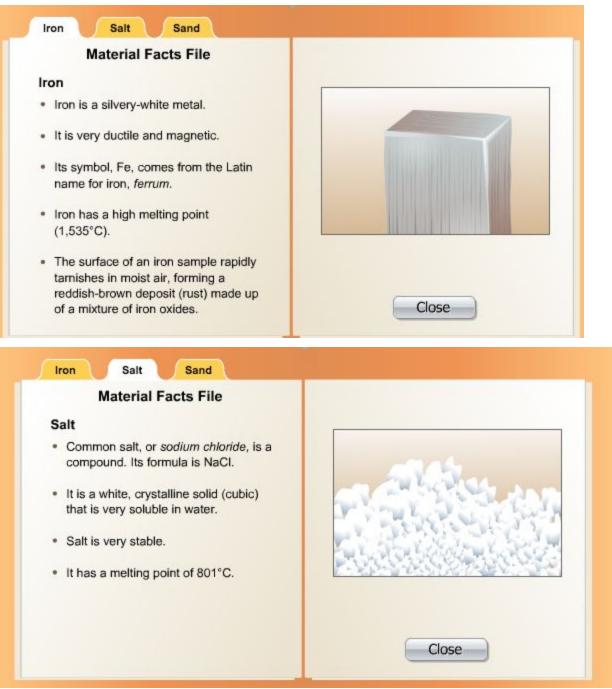


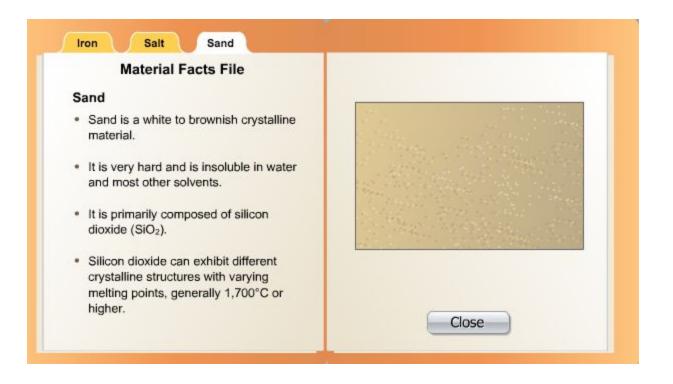
Read through (or listen to) the scenario and click **continue**.

- 1. Click on the lab coat, protective gloves, and safety goggles. Then, click Enter.
- 2. Think about the most logical order in which to separate the components. Then, click the container with the label of the component you wish to separate first.
- 3. To change your selection, click another container. For example, you may decide to separate iron filings instead of sand. To do so, click the container labeled "iron filings."

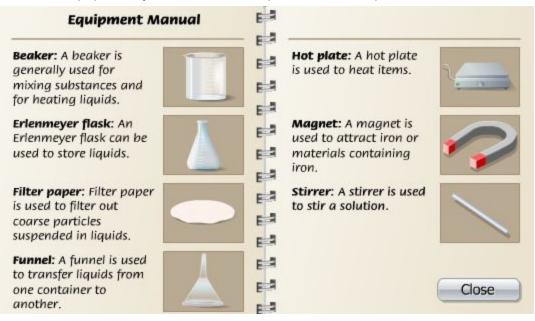


4. Use the **Materials Facts File** at any time to learn more about the component you are trying to separate.





5. Click on the **Equipment Manual** on the lower left side of the screen to read about the equipment you can use to separate the components of the mixture.



- 6. Click the Equipment Cupboard to open it.
- 7. Click all of the equipment you will need to separate the component. Remember: your goal is to separate the components using the fewest possible steps and the least amount of time!

- 8. Click on **Separate** to begin the process of separation.
- 9. Click **submit** to collect the component in the glass container
- 10. Repeat steps 2-9 for the remaining 2 components.

ANSWER ALL QUESTIONS FOR STAGE 1 ON THE GOOGLE FORM

MOVE ON TO STAGE 2

Scenario					
Hello! Go ready for experime dispose o We know The lab te to read ea	another one nt. These su f substances that the exp schnicians ha the description	We have three bstances must t is that have been eriment involved ave created a de on and use that	substance be dispose i identified d one elem escription f informatio	ent, one compour or each unknown n to identify each	ver from an However, we can only nd, and one mixture. substance. I'd like you substance as an
		the item is ready			isposal Form for each ne to wastellet's get Unknown C
Element		Compound		Mixture	
Continue					

- 1. Click on the lab coat, protective gloves, and safety goggles. Then, click Enter.
- 2. Move the points over a container to view the description of the unknown substance within. *Screenshots of each description are below.*

Unknown A

Unknown A is composed of soil, seeds, and white granules. When water is added and the substance is filtered, the white granules dissolve and the soil and seeds are caught on the filter paper.

Unknown B

Unknown B is a thin, silver-colored sheet that is easily bent. It is a very good conductor of electricity. It is insoluble in water and reacts with strong acids, giving off bubbles of a flammable gas.

Unknown C

Unknown C is a white, chalk-like powder that is not soluble in water. When heated in a container that has been fitted with a stopper and gas tube, it gives off a gas that is not very soluble in water and will not support combustion. When water is added to the cooled, white residue left behind, the substance reacts and gives off heat.

- 3. Identify the unknown substance as an element, compound, or mixture by placing it on the appropriate cart. Then, click **evaluate.**
- 4. Repeat steps 2-3 for the other two unknown substances.
- 5. Click the **Materials Disposal Form** to review your results. Click **close** when you are finished.

ANSWER ALL QUESTIONS FOR STAGE 2 ON THE GOOGLE FORM