A mixture is two or more substances that are mixed together but maintain their physical properties.

A solution is when one substance dissolves in water or a solvent.

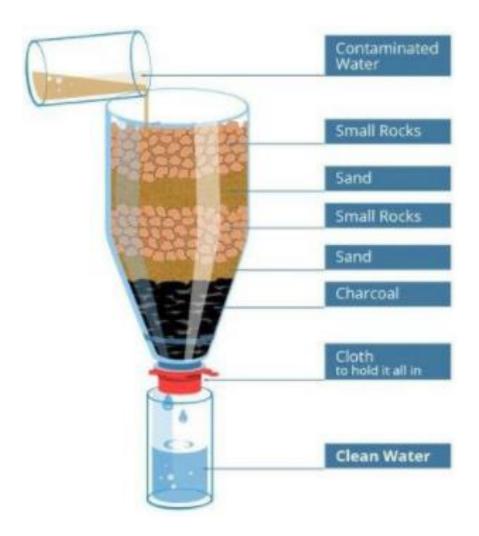
Use the pictures from the mixtures and solutions memory game for this activity. Place the pictures in the correct boxes then read the sentence to your group or partner and explain your thinking.

I know that	is a	because	

## Mixture and Solution Memory

lemonade	soil and Funnel Solid Residue Filtrate	Mixture	Mixture	Solution
nuts and berries	water and rocks	Neither	Mixture	Solution
salad	water and rocks	Mixtures and Solutions Memory	Mixture	Solution
fruits and vegetables	sugar and water	salt and water	Mixture	Solution
oil and water	Kool aid and water	alka seltzer tablet and water	Solution	Solution

## Is contaminated water a mixture or a solution?



Leroy went down to the lake and got a sample of contaminated lake water. He wanted to discover if the contaminated water was a mixture or a solution. The diagram to the left show the process Leroy took. Work with your group to answer the following questions below.

1. What process did Leroy take to try to analyze the contaminated water?

2. Was the contaminated water a mixture or a solution? Explain why or why not.

Use the sentence stem to co	omplete the activity.			
I would use	_ tool to separate	, because	·	
Which tool (	or tools) would	you use to sepa	rate the followir	ng mixtures?
1. Sand and R	ocks			
2. Iron Filings	and Salt			
3. Salt and Sa (multiple tool				
Magnet	Strainer	Hot Plate	Coffee Filter	Bowl of Water

Use the sentence stem to com	plete the activity.			
I would use	tool to separate	, because	·	
Which tool (c	or tools) would	you use to separ	rate the following	g mixtures?
1. Paperclips	and Rocks			
2. Wood chip	s and Marbles			
3. Salt and Wa	ater			
Magnet	Strainer	Hot Plate	Coffee Filter	Bowl of Water

## Tools



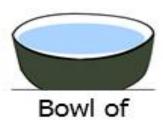








Coffee Filter



Bowl of Water







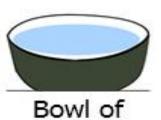
Strainer



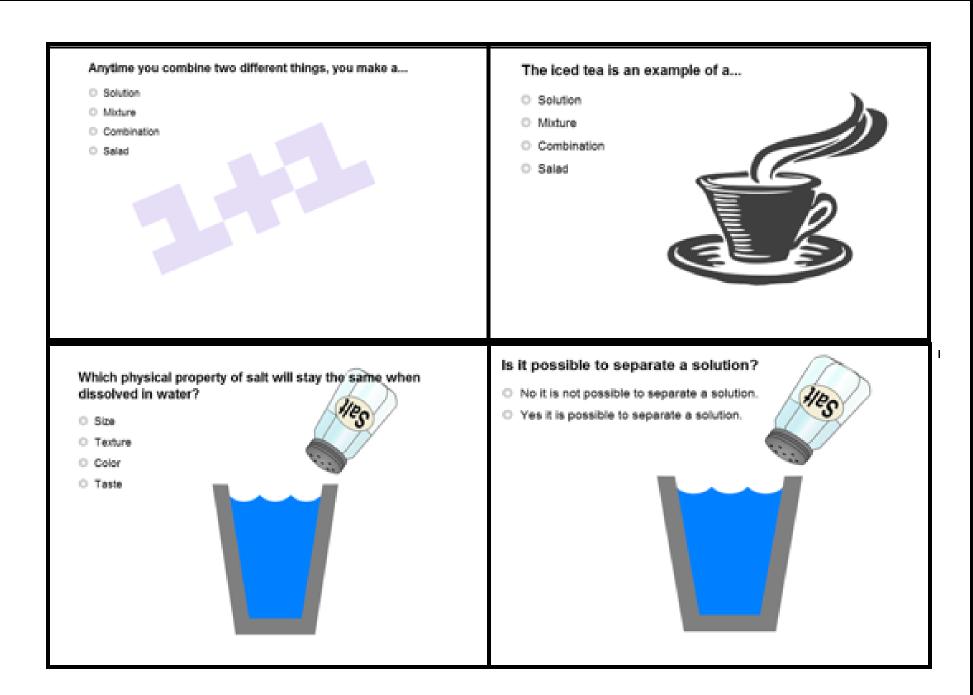
Hot Plate



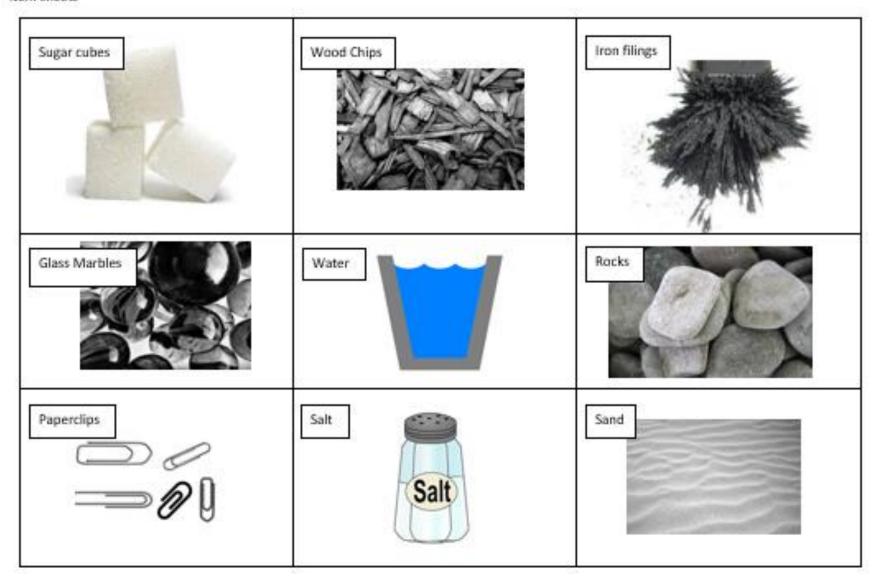
Coffee Filter



Bowl of Water

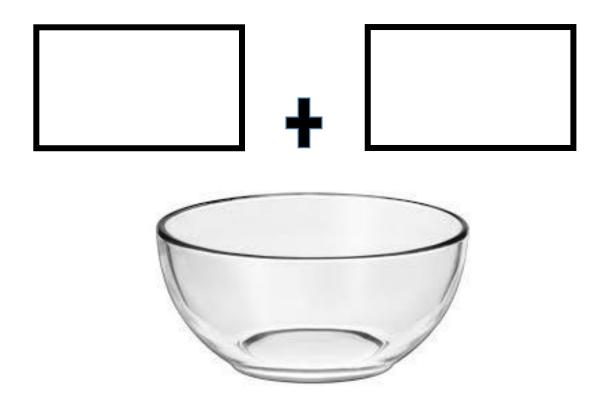


## Item sheets



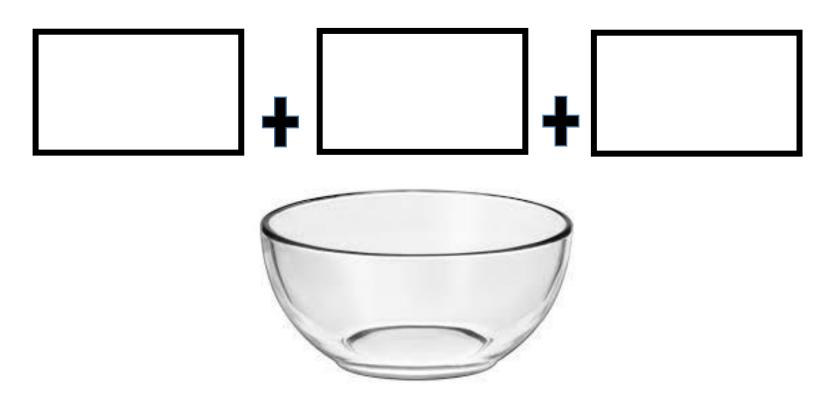
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Pick two items from the item sheet and mix them together in the bowl below. Explain the steps you would use to separate this mixture and what tools you would use to assist you.



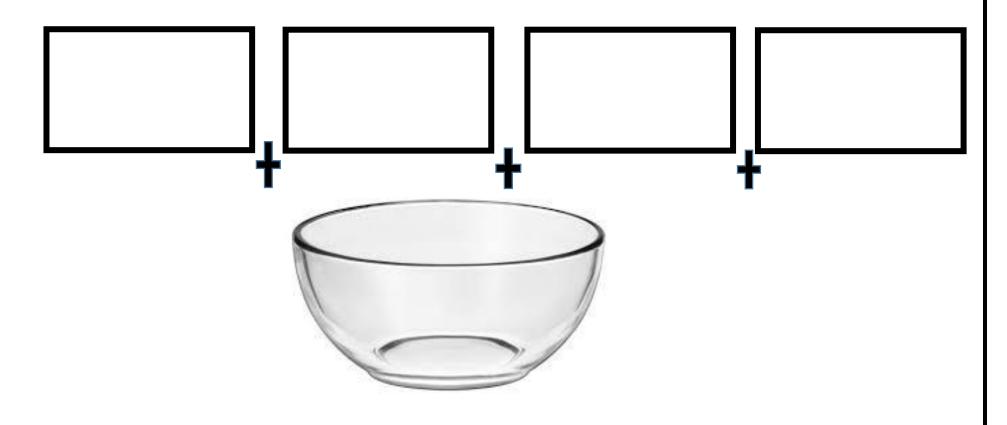
Step 1	
Step 2	
Step 3	
Step 4	

Pick three items from the item sheet and mix them together in the bowl below. Explain the steps you would use to separate this mixture and what tools you would use to assist you.



Step 1_	
Step 2	
Step 3	
Step 4	

Pick four items from the item sheet and mix them together in the bowl below. Explain the steps you would use to separate this mixture and what tools you would use to assist you.



 Step 1

 Step 2

 Step 3

 Step 4

We added sugar, water, and sand to the bowl below. Use pictures to explain the steps you would use to separate this mixture and what tools you would use to assist you.

