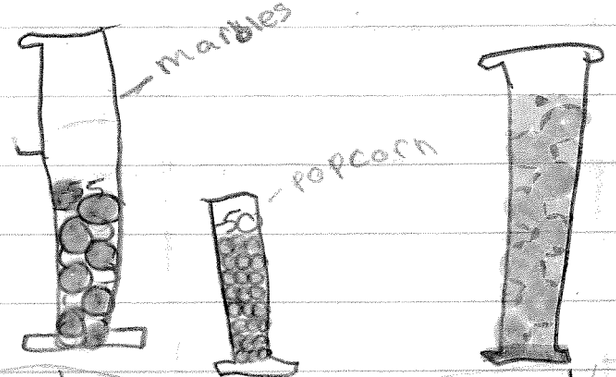
What will happe is the popcorn are going to fill in the sapace in the marble



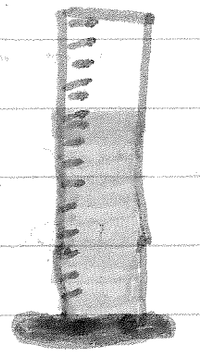
volume	volume	mass
marbles	55 ml	43.4 g
pop corn	50 ml	42.9 g
	80 ml	80.0 g
pop corn		

popcorn bubble? air evaporate in same water

Mass	water	alcohol
Cyl 1	50.2 g	40.4 g
Cyl 2	50.6 g	40.0
Cyl 3 (1+2)	100.1 g	

Vol	water	alcohol
Cyl 1	50 ml.	50 ml.
Cyl 2	+ 50 ml.	50 ml.
Cyl 3	100 ml	100
both	volum	
cyl 1	50 ml	50 ml
cyl 2	50 ml	50 ml
cyl 3	97 ml	97 ml
cyl 1		
cyl 2		
cyl 3		

Volume
the space it takes up



mass
how much matter is in the object.
find it by its weight

Mater	mass	Volume	mass / volume
Marbles	43 g	55 ml	43g / 55ml
Popcorn corned	42 g	50 ml	42g / 55 ml
Marbles + Popcorn	85 g	80 ml	85g / 80 ml

Alcohol	mass	volume	volume
cyl 1	40 g	50 ml	40g / 50
cyl 2	40	50	40g / 50
cyl 3	80g	100ml	80g / 100ml

1. mesure the mass
2. mesure the volume
3. put ~~the #~~ of volume g
4. put the # of mass ml
5. You'r finish!

Density = both lik solid

mixture is wen you put more than two things togeter.

When the solid (salt) is mixed with H_2O the salt is transparent and it cant be separated.

Salt solution

metals

they conduct heat and electricyty bent/flatend w/out braking their solid and @ tom temperture gold, copper, Silver, and iron

non metals

donot conduct electricity heat They drak later than dend most are gasses helium, oxygen, nitrogen, conon

metalloids

conduct heat ~~an~~ electricity but not so well

Boron, and Sillicon

Mixtures

Part 1

Prepare three cups. Put 1 level spoon (5 mL) of each solid material in each cup. Observe the three solid materials. Fill in the property chart below.

	Color	Texture	Particle shape	Particle size
Gravel	wite and brown	rogh and bumpy	triangles △	mediam
Powder	dark white	Soth	wite circles	very small
Salt	white	rogh	circle and triangle	Small

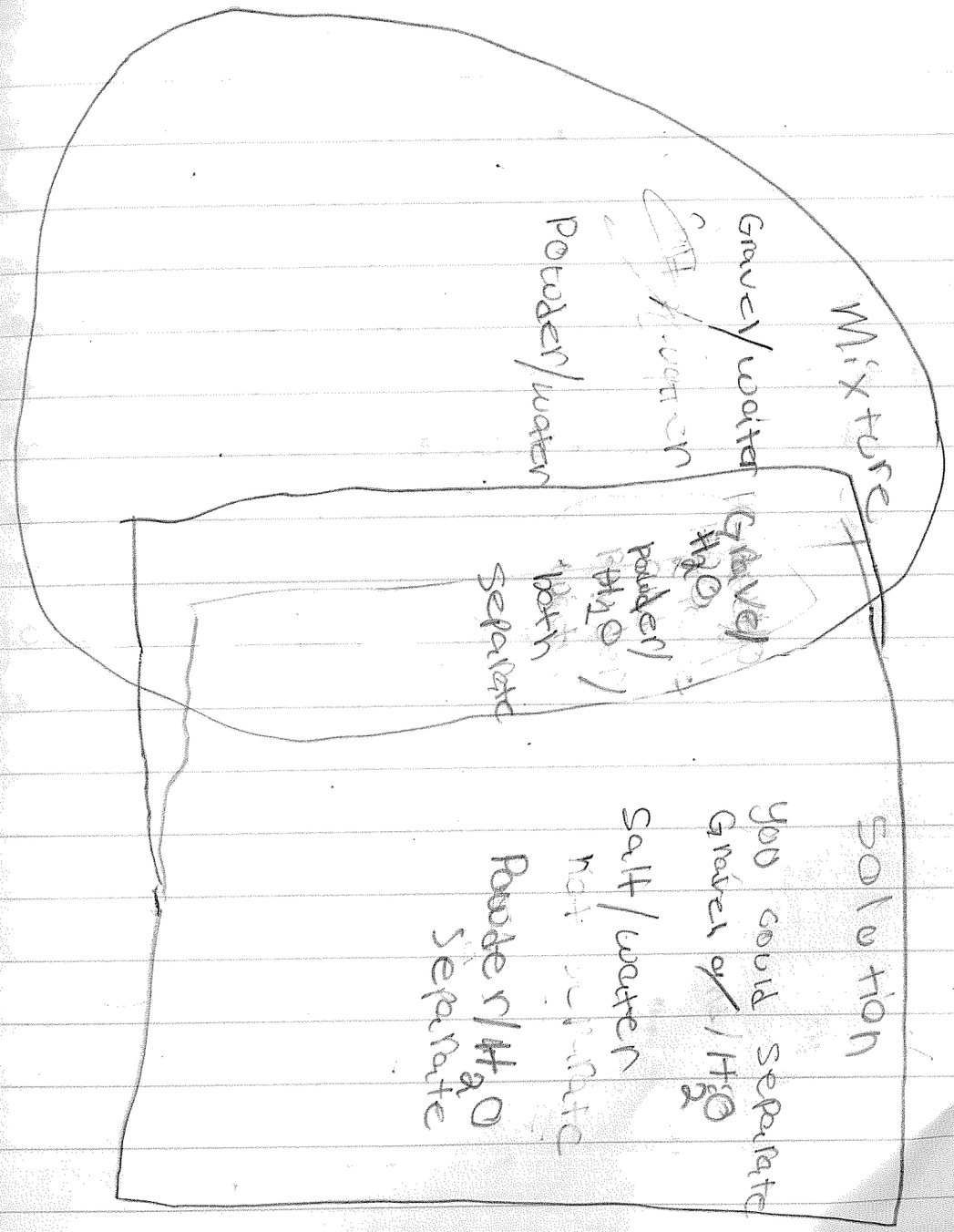
Part 2

Add 50 mL of water (one full syringe) to each cup. Stir and observe. Write your observations on the opposite page.

Gravel and water: the color is te same rakes bant flote browner

Powder and water: bark white no powder

Salt and water: meted salt



A chemical change is change in matter that produces substances diffrent from the substan you start with.

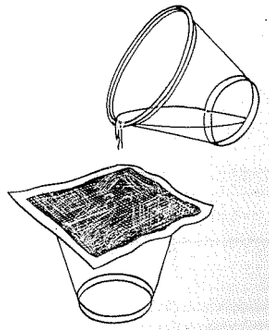
Separations

How can a mixture be separated?

Procedure

Separate all three mixtures, using screens and filters.

1. Place a screen over an empty, labeled cup.
2. Stir the mixture thoroughly.
3. Pour the mixture through the screen.
4. Pour the mixture through the filter paper.



Did you separate the mixtures? Record your results.

	Screen	Filter paper
Gravel	yes	no
Powder	no	yes
Salt	no	no

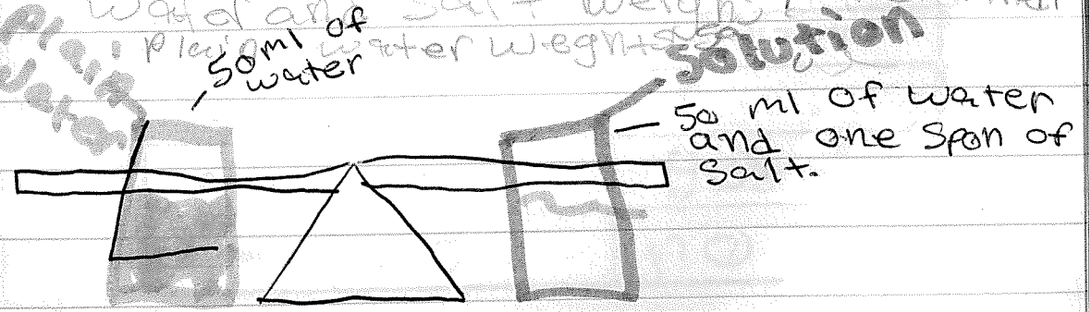
I think the water evaporated because there's no H_2O and all that are salt crystals.

Where does the solid matirial go when a solution is made?

mass of 50ml of water = 50g (volume)

Will a solution made wit 50ml of plain water, and one spon of salt have.... the same mass, more mass, of less mass. I think its going to be more mass. than 50mL of plain H_2O.

I was right. Solution has more mass. I think the solution of the water and salt weighs more than plain water weighs

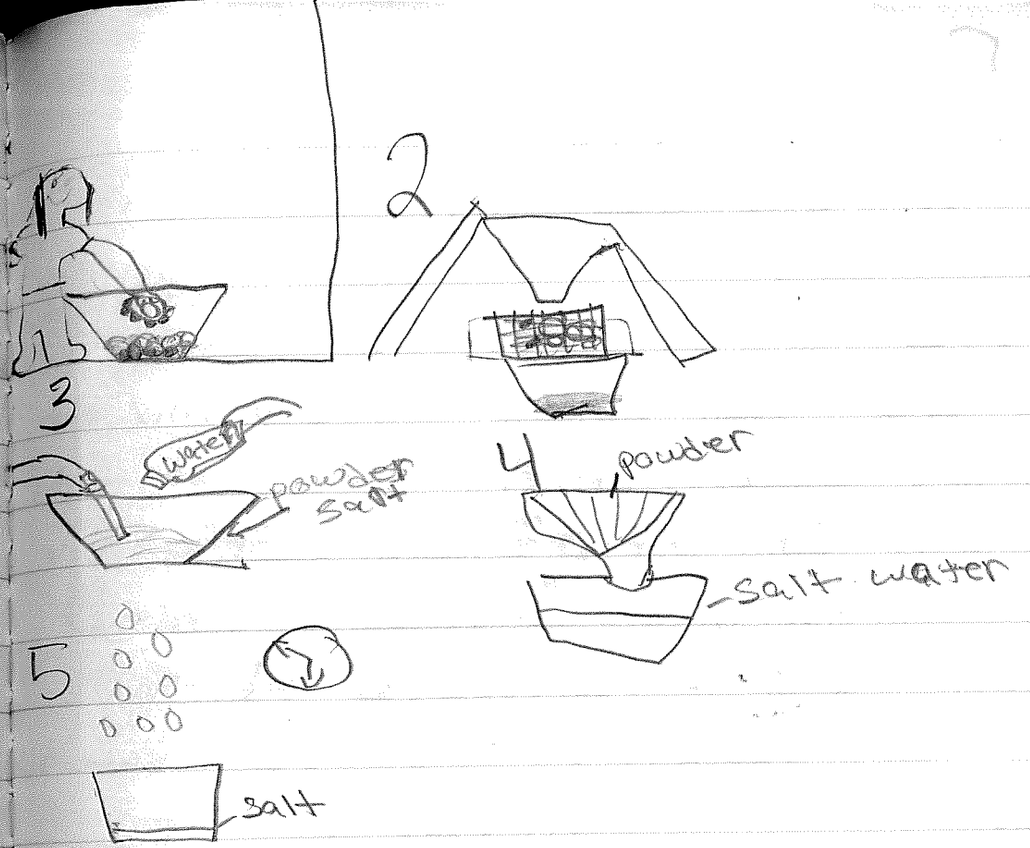


final plan

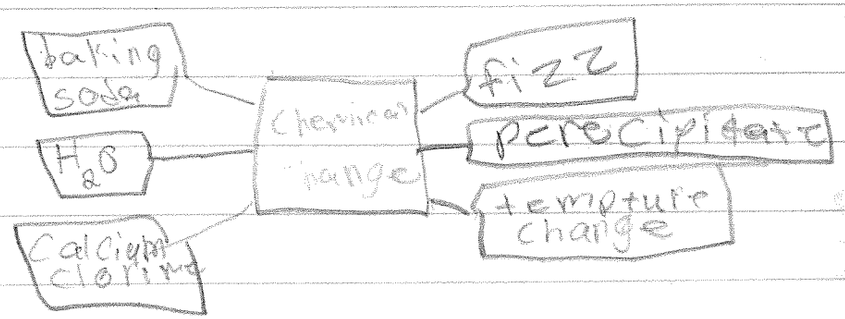
frist, we use a magnet to separate the mystery material. Next, we use a screen to separate the gravel from the powder and salt. Then, we used the watter to mix the salt, powder and the water. Afther that, we used the coffe filter to separate the solution from the powder. Finally, we waited for the watter to separate (evaporate) then we have left the salt behind and now all the meterals are separated all the dry materials.
(fyi yose a funel)

How can you separate a mixture of dry matirial?
gravel + powder + salt = dry mixture.
1. use screen to separate the gravel from powder & salt.
2. use coffe filter the rest
3. add water
mistery matiral: water
mistery matiral: rocks ...
to metal

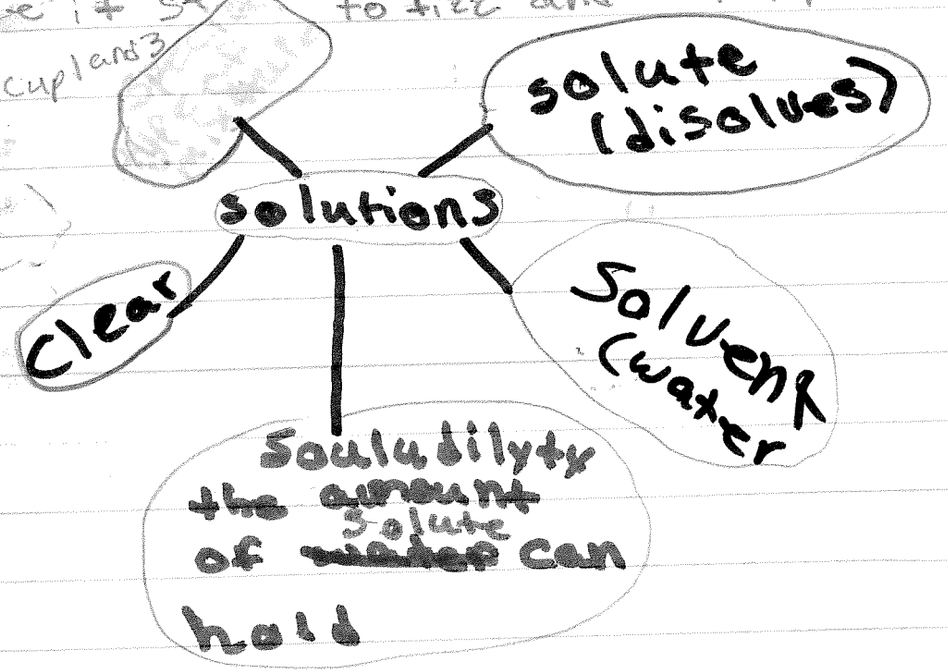
tool	material
magnet	blak gravel
Scre	gravel
water	
wait	
to	Salt
Separate	


1
2
3
water
powder
salt
4
powder
salt water
5
salt

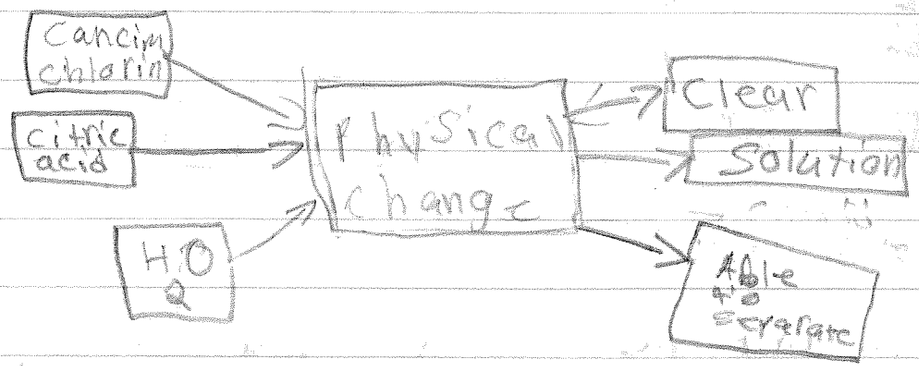
When baking soda calcium chlorin with water it creates a chemical change because a precipatate was created and a slight temperture change.



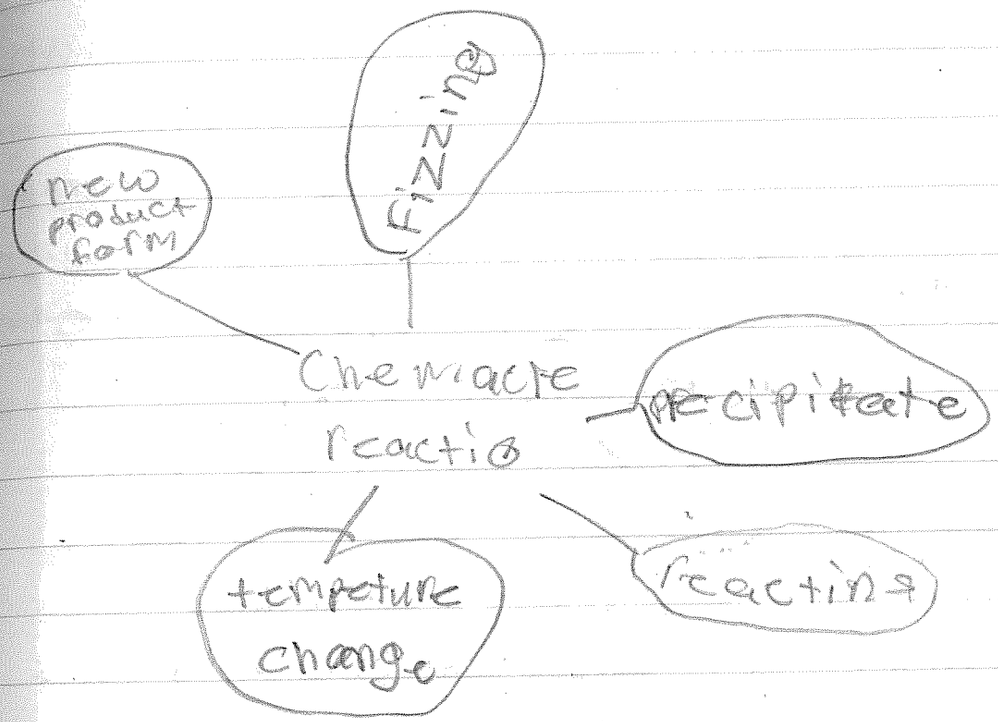
What happens when two substans are mixed with water? A chemecal chan
because it splitted to fizz and a temperture cage
like in cupland3



Calcium Chloride-2,
citric acid- solution
baking soda- Solution



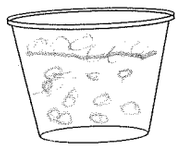
When we mixe citric acid and calcium chlorin with water, we get a physical change because the solution is clear and able to separate.



WARNING — This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

Two-Substance Mixtures

Cup 1: 1 spoon of calcium chloride, 1 spoon of baking soda



50 mL of water

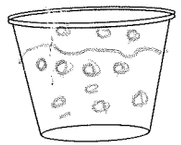
Carbon dioxide
The cup started to make bubles and fizz
Smells like a sal de uvas
Fresh

Cup 2: 1 spoon of calcium chloride, 1 spoon of citric acid

50 mL of water

30°f
Solution
Smells
Bad
warmi

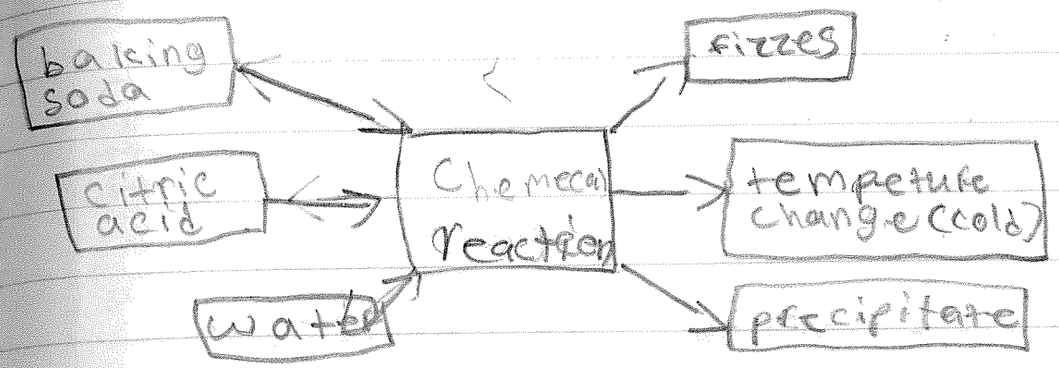
Cup 3: 1 spoon of baking soda, 1 spoon of citric acid



50 mL of water

made carbondioxide
Smells and looks like Sprite strong
Cold

1. Which substances reacted to form a gas?
2. Which substances reacted to form a precipitate?



When you mix baking soda, citric acid with water I think you get a chemical reaction because it fizzes, it becomes cold and it precipitate.

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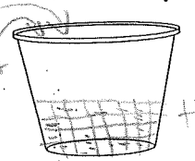
Solid - Liquid - Gas

Cup 1: Frosty

ice salt



thers

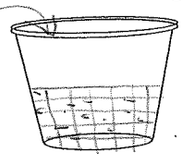
50 mL of water

-10°f 20°f

frost an frost from the ice and salt

Cup 2: Dewey

ice



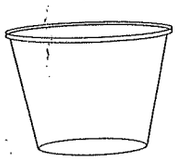
50 mL of water

30°f

water on Dewey

Cup 3: Stanley

I predict the water molucules come from the heat



50 mL of water

water vapory

150°f 110°f

① I think Dewy did not have frost because we did not add salt and on frosty we did add salt. ② I think frosty didn't get water drops because we aded salt. ③ There difrent because Dewey is warmer than frosty. ④ Drops of water formed because the can is to hot too get frosto ⑤