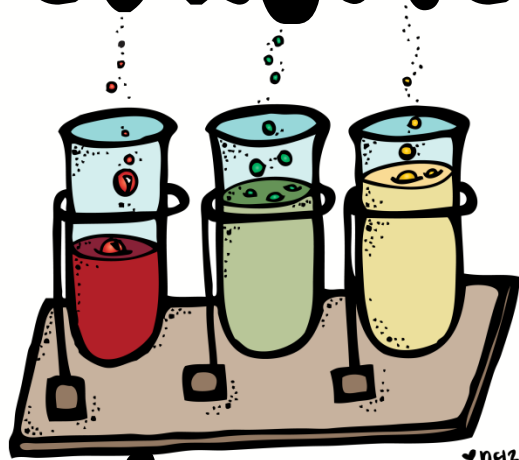


Super science experiments



by: sparkles, smiles,
and student teaching
<http://sssteaching.blogspot.com>

experi-
ment

This collection:

- Includes over 70+ awesome experiments to try out in your classroom or home! I only picked the really cool ones (trust me) that I knew students would love!
-
- Highlighted in purple = some adult assistance.
- These are just compiled by me, not my ideas...although I did modify some of them.
- These would be great for a classroom or done at home as demos 😊

DIY Black Snake Fireworks

- Materials:

- Lighter fluid
- Powdered sugar
- Baking soda
- Sand
- Lighter



- Steps:

- Make a pile of sand and put a “crater” in top
- Douse crater with a **little** lighter fluid.
- Scoop 1 scoop of a mixture of 4 tbsp. powdered sugar and 1 tbsp. of baking soda into crater
- Light the crater from around the bottom using lighter (Adult help!)*
- It doesn't burn too high but have an adult around to put more sand on just in case

Salt Art

- Materials:

- White glue
- Salt
- Food coloring
- Water
- Paintbrush



- Steps:

- Draw designs with white glue on heavy paper and cover with salt and let dry
- Mix food coloring and water and use paintbrush to drop on your picture- observe what happens!
- The paint moves along the salt (without you touching it- COOL!)

Shaving Cream Art

- **Materials:**

- Shaving cream
- Tub
- Liquid watercolors
- Toothpick
- Cardstock



- **Steps:**

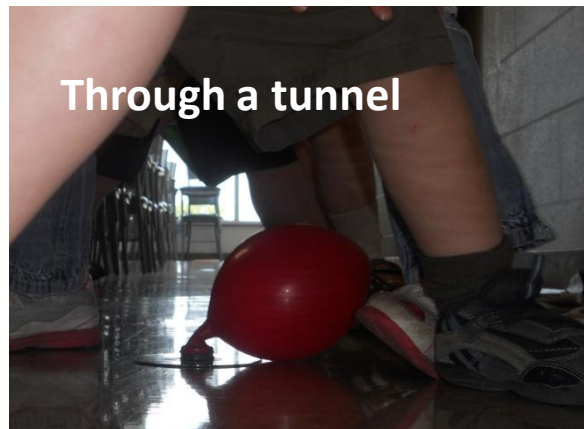
- Put layer of shaving cream in bottom of tub
- Drop watercolors in sparingly
- Swirl (not mix!) with toothpick until desired design
- Gently push paper on top. Wipe off excess shaving cream and dry
- *These would be great backgrounds or cards for other projects 😊



Hovercrafts!

- **Materials:**

- Balloon
- Drill
- Bottlecap
- CD (not an important one!)
- Superglue



- **Steps:**

- Glue bottle cap over center of CD
- Drill hole using drill (Adult help!)
- Blow up balloon, then pinch bottom and stretch to cover bottle cap
- Let it fly on smooth surfaces or see what happens in water, ramps, grass, etc.... 😊 like we did!

Balloon Rockets

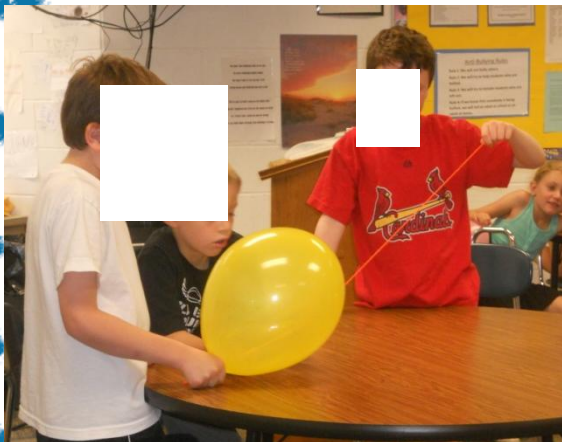
- **Materials:**

- Straw
- String
- Tape
- Balloon



- **Steps:**

- Put string through straw
- Make a course (try vertical, horizontal, under a table, down the stairs, only one end taped, etc...)
- Tape straw to balloon (blown up but not tied)
- Release balloon and it will follow the course (if end is left open...it will shoot off)



Gummy Bear Lab

- See what happens when gummy bears are in different solutions!
- Experiment with the ones you think are cool or **make your own.** 😊
- We tried:
 - Water
 - Sugar water
 - Vinegar
 - Salt water
 - Bleach (adult help!*) – it gets warm and foamy
 - Soda
 - Baking soda and vinegar
 - Rubbing alcohol



Rock Candy!



- **Materials:**

- Sugar
- Jar
- Water
- String
- Pencil

- **Steps:**

- Tie string to pencil and lay over top of jar to measure. Cut about an inch from bottom
- Mix 4 cups sugar with 2 cups water. Heat water first and keep pouring in sugar till it cannot dissolve anymore!
- Pour liquid into jar and wait 3-7 days for crystals to appear
- ***you can add food coloring or flavoring to change it up 😊**

Candy Acid Tests

- Materials :

- Variety of candy
- Baking soda
- Water



- Steps:

- Fill cups up with baking soda and water.
- Try different candies in the water (You might have to break them open)
- Look for bubbles which means the candy is acidic. Pixie stix, warheads, lemonheads- work pretty well!

Float/Sink Candy Experiments

- Materials:
 - Fun size candy bars
 - Water
- Steps:
 - Try pieces of candy bar to see if they float or sink.
 - Guess what you think it will do first!
 - Fun to try with leftover candy from Easter or Halloween!

M&Ms and Skittles Experiment

- Materials:
 - Skittles
 - M&Ms
 - Warm water
 - Cup



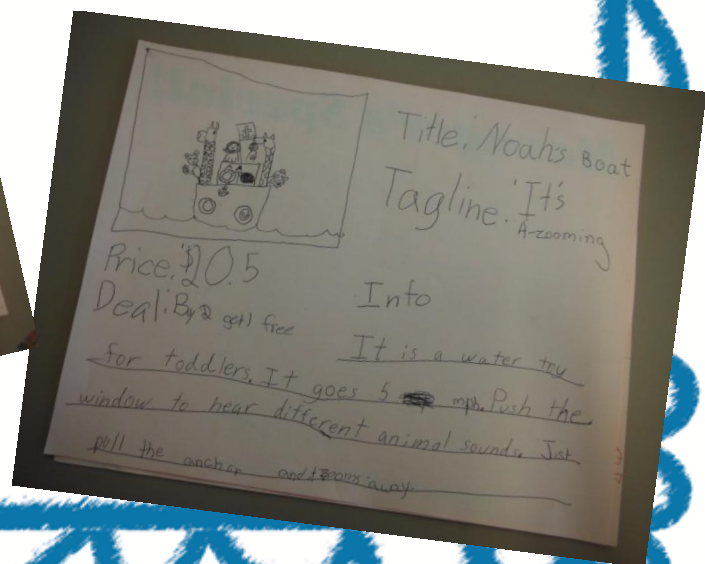
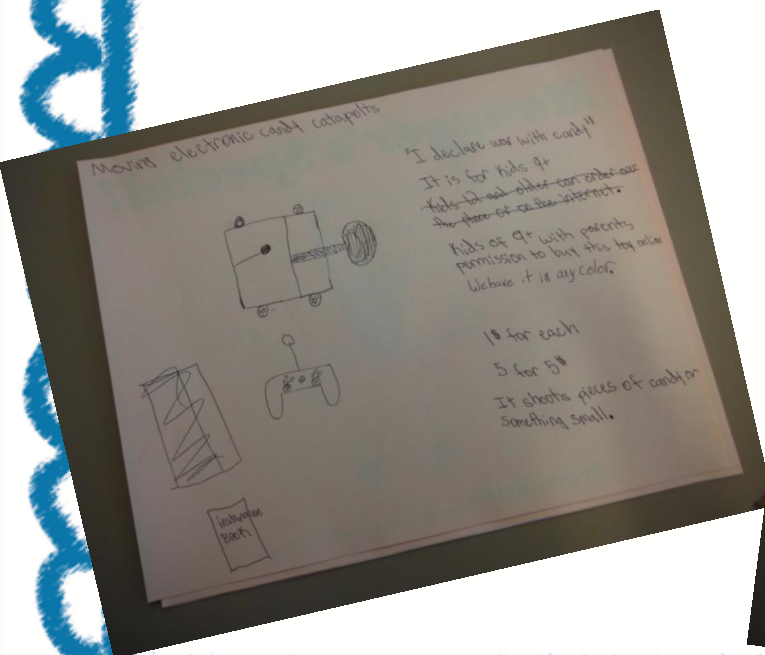
- Steps:
 - Fill a cup about $\frac{1}{2}$ way with warm water.
 - Put Skittles and M&Ms in water face up. Watch what happens!
 - The Ms and S's should float to the top!

Dissolving Race

- Materials:
 - Different types of candy
 - Warm water
 - Cold water
 - Cups
- Steps:
 - Put warm and cold water in two different cups. Drop identical kinds of candy in each. See if there are differences in how each dissolve.

Invention Hunters

- Create your own invention!
- Pick an audience:
 - Boys, girls, kids, parents, dogs, etc...
- Pick a purpose:
 - Kitchen/eating, bathroom, entertainment, transportation, etc.
- Brainstorm ideas and get to work.



Petri Dishes

- Materials:

- Bouillon cubes
- Knox gelatin
- Water
- Sugar



- Steps:

- Mix 1 cup water with 1 ½ packets of gelatin, 1 bouillon cube, and 2 tsp. of sugar
- Microwave at 1 min intervals until boiling.
- Let cool and pour into dishes that are

lightly covered and refrigerate.

- Use within 2-3 days.
- Use Q-tips to test areas you think have most germs and rub on dishes (the next day). What the bacteria and fungus grow!
- Takes about a week to grow. Store in a cool place!



Rubber Cement Resist

- Materials:

- Paper
- Rubber cement
- Paint

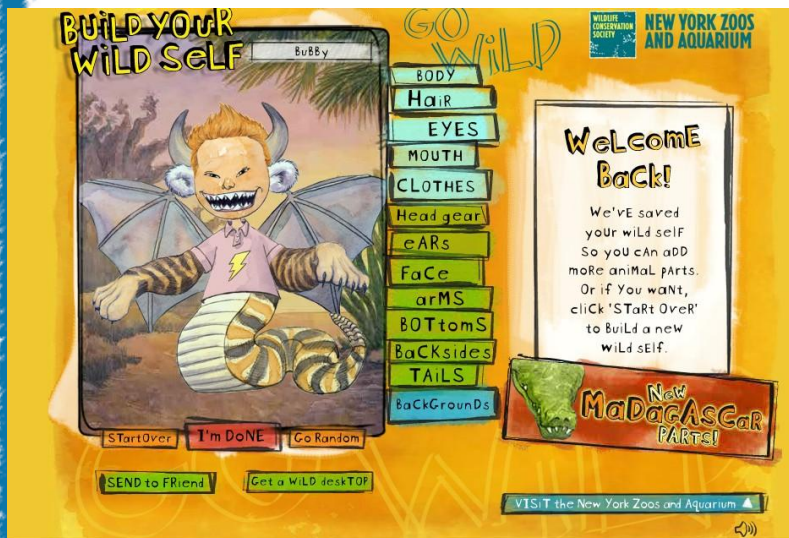


- Steps:

- Make design with rubber cement (dropping it on – NOT brushing)
- Let dry and paint over with paint
- Let dry again and rub the rubber cement off to reveal your picture!

Build your Wild Self

- Buildyourwildself.com
 - Use this website to add different animal adaptations to a character.
 - When finished, it gives you specifically what the adaptation can help you do. Fun for all ages!



Check out our bat wings, Siberian tiger paws, snake body, bison horns, and polar bear ears!



Homemade Bouncy Balls

- Materials:

- 2 bowls
- Borax
- Glue
- Cornstarch
- Measuring spoons

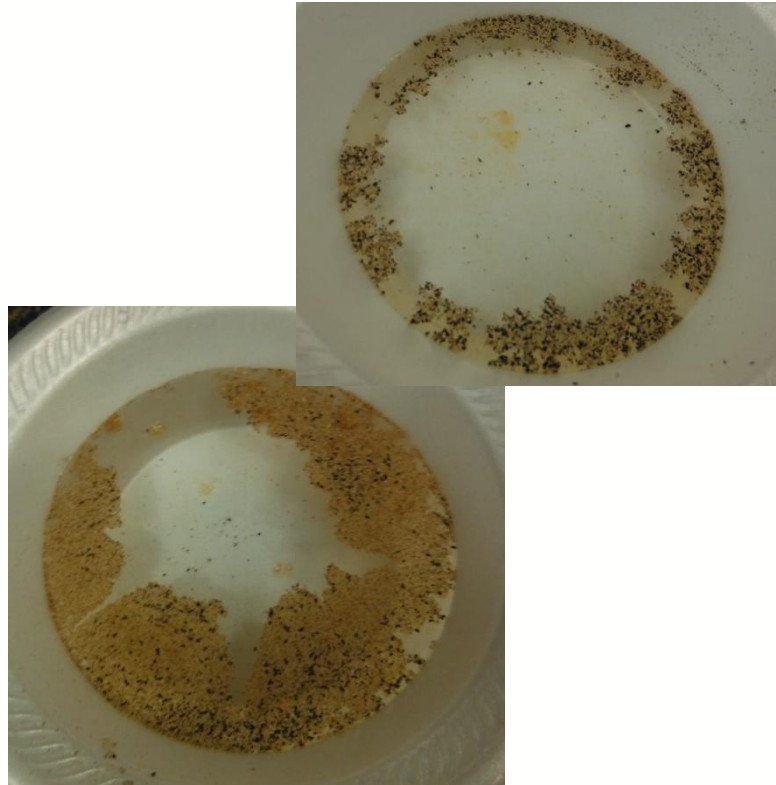


- Steps:

- Add 2 tbsp. warm water and $\frac{1}{2}$ tsp. Borax and mix together till dissolved. Add food coloring if desired
- In second bowl combine, 1 tbsp. Elmer's Glue, $\frac{1}{2}$ tsp. Borax mixture, and 1 tbsp. cornstarch but **DO NOT MIX** for at least 15 seconds
- Mix until it becomes too hard to do so then use your hands to knead it into a ball
- Store in plastic bags for storage.

Pepper Scatter Experiment

- Materials:
 - Pepper
 - Cinnamon
 - Water
 - Bowl
 - Dish soap



- Steps:
 - Shake some pepper into a bowl filled $\frac{1}{2}$ with water. Put a drop of dish soap and see what happens
 - Water breaks the surface tension and the pepper scatters!
 - What will happen with cinnamon? What if you put the soap on the side?
 - Try out crayon shavings, bottlecaps, or other things you can think of.

Elephant Toothpaste

• [http://www.youtube.com/watch?v= DJ6PfcTiKM&feature=player_embedded](http://www.youtube.com/watch?v=DJ6PfcTiKM&feature=player_embedded) (cool link of a similar experiment)

Materials:

- 6% clairoxide (hydrogen peroxide)
 - available at Sally's
- Food coloring
- Water bottle
- Yeast
- Water
- Dish soap
- pan



Steps:

- Dissolve 1 tsp. yeast in 2 tbsp of warm water (in separate bowl)
- Put ½ cup of hydrogen peroxide, 4-5 drops food coloring and a squirt of dish soap in the water bottle
- Put yeast mixture into bottle and observe!
- The bottle gets warm because of a chemical reaction
 - Why do you think it might be called elephant toothpaste?



Flaming Dollar

- Definitely a WOW factor!
- Materials:
 - Denomination of currency (bill)
 - Rubbing alcohol
 - Water
 - Lighter
 - Salt (optional)
- Steps:
 - Soak bill in equal parts rubbing alcohol and water for a couple minutes
 - Adding salt will create a more yellow flame as oppose to alcohol which burns blue
 - Light using a lighter (*Adult)
 - The alcohol burns but not the bill
 - Great video with explanation in detail found: http://www.youtube.com/watch?v=Vm71E1Bj4UA&feature=player_embedded



Disappearing Styrofoam

- Materials:
 - Styrofoam bowl or cup
 - Acetone (available at hardware stores) – handle carefully
- Steps:
 - Put small amount of acetone in aluminum pan (*Adult)
 - Using gloves or tongs put the styrofoam in and watch what happens
 - It completely dissolves because the acetone breaks down the bonds and all you are left with is a small white blob.
 - After thoroughly washing the blob and pan you can touch it to see what it feels like

Mix 100 Colors

- Materials:

- Paint
- Plates
- Paper



- Steps:

- Mix different colors to create new colors!
- What happens with you add white?
- What happens when you add black?
- Are primary or secondary colors easier to mix?

Harry Potter Potion

- Materials:

- Water
- Pop Rocks (optional)
- Baking soda
- Lemon juice
- Food coloring



- Steps:

- Fill a cup ½ way with water. Add some Pop Rocks
 - Listen for popping
- Add 1 tsp. baking soda
- Add some food coloring

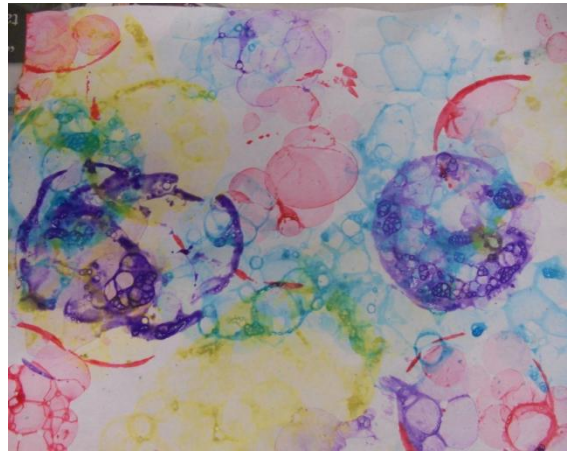


- Lastly squeeze a lemon first then add the juice
 - Watch for fizzing.
 - For more fun: Add ice cubes with food coloring to make a color changing drink! 😊
 - Shake them up and see what happens- watch out!
- Add glowsticks to Harry Potter Potion (adult)

Bubble Paint

- Materials:

- Bubbles
- Paint (washable)
- Straws
- paper
- soap



- Steps:

- Put a mixture of $\frac{1}{2}$ paint and $\frac{1}{2}$ soap into a cup.
- Use a straw to blow bubbles and capture them on your paper

Fun Paints to Try

- Glitter Paint
 - ¼ cup corn syrup + food coloring + glitter
- Magic Paint
 - 1 tbsp. baking soda + 2 tbsp. water + food coloring
 - Mix water and baking soda together. Write a mystery message and let dry completely.
 - To reveal mix water and food coloring and brush over
- Crystal Paint
 - 1/8 cup liquid starch
 - 1/8 cup water
 - Food coloring
 - The paint crystallizes as it dries

Goop

- Materials:
 - Cornstarch
 - Water
 - Food coloring



- Steps:
 - Mix equal parts cornstarch and water then add food coloring.
 - DO NOT GET ON TABLE! Put covering down first
 - This behaves like a liquid and a solid
 - Touch it, what does it feel like?
 - Try to pour it, what does it do?

Taste Test

- Materials:

- Apple
- Potato
- Blindfold

- Steps:

- Have an adult cut up an apple and potato into small pieces.
- Ask a friend to close their eyes and hold their nose. Put a piece of each in their hand.
- Can they taste the difference?
 - They have similar textures but without smell you cannot tell the difference very easily even though normally they are very distinct.

“Eye Need a Hand”

- Materials:
 - Shoe box
 - Friend/parent
 - Small objects (key, candle, action figure, glasses)
 - Paper
 - Pencil
- Steps:
 - But a round hole in one end of the shoe box. Keep the lid intact.
 - Have a friend put in some secret objects.
 - Using your non-drawing hand reach in the box. With your other hand try to draw what you feel
 - Was it difficult?
 - Extension: Try putting a piece of paper in the box and drawing a square, X, house, face...
 - Were they hard to draw without looking?
 - Your brain relies on your eyes to get a picture of something, it becomes harder to put together a picture when you have to feel!

Fireworks Cards

- Materials:
 - Sheet pan
 - Oil
 - Water
 - Food coloring
 - Toothpick
 - notecard



- Steps:
 - Pour small amount of water into pan, then some oil
 - Add food coloring and mix with a toothpick
 - Lay notecard on top and pull off!
 - Let cards dry on newspaper

Volcano!!

- Materials:

- Baking soda
- Vinegar
- Baby food jar
- Food coloring



- Steps:

- Poke hole in baby food jar using screw driver or nail.
- Put about 1/3 cup of vinegar in the jar. Add some food coloring.
- Put some baking soda in the lid and put it on! Hold it on tight.
 - The smaller the hole the larger the volcano goes

Water Tornado

- Materials:

- 2, 2 liter empty bottles
- Duct tape
- Food coloring
- Water
- Dish soap

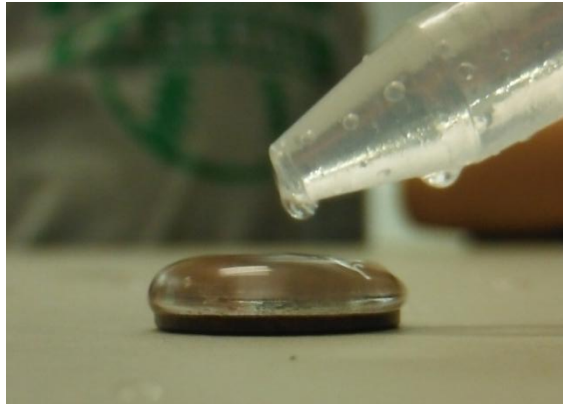
- Steps:

- Fill 1 bottle about $\frac{2}{3}$ full of water. Add food coloring and a dash of soap.
- Put the other bottle directly above so their openings are together. Tape very thoroughly!
- Flip upside down and shake side to side to create a tornado.

Penny Experiment

- Materials:

- Penny
- Dropper
- water



- Steps:

- Guess how much water a penny can hold
- Use the dropper to drop water onto the penny slowly.
 - Were you surprised by how much it can hold?
 - Just like the pepper scatter experiment, surface tension hold the water together creating almost a bubble over the penny.

Raisin Races

- Materials:
 - Light soda (7up or Sprite work well)
 - clear Cup
 - Raisins
- Steps:
 - Drop some raisins in a cup of soda.
 - Do they raisins float or sink?
 - The bubbles from the soda attach to the raisins, so they float then sink in constant rotation.
 - Try other small light objects, that you think might float in soda and not in water.

Oil and Water Experiments

**One of our absolute favorites from last year!!!

**



- Materials:

- Cups or test tubes
- Water
- Oil
- Food coloring
- Sugar, salt, flour, corn syrup, vanilla,

- Steps:

- Fill cups with water and then a layer of oil
- Experiment with different items and see what happens when you add them on top
 - Which ones float? Sink? Release bubbles?
 - Try shaking up the tubes and seeing what happens afterward



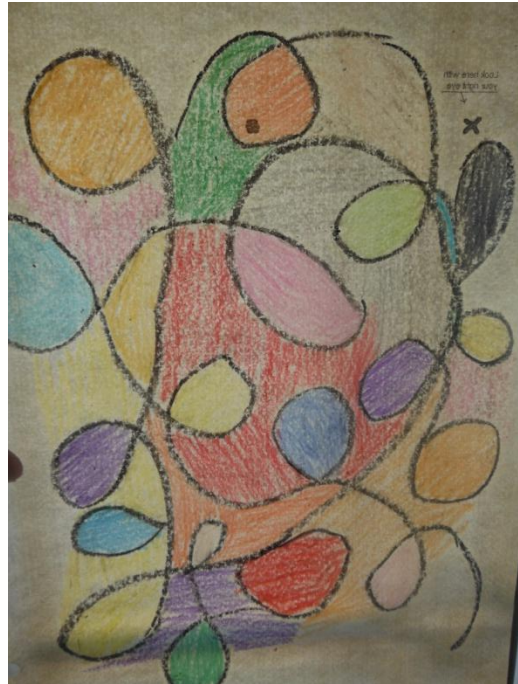
Gak!

- Messy, slimy, slippery..what's more fun?!
- Materials:
 - Bowl
 - Glue
 - Liquid starch
 - Food coloring
- Steps:
 - In a bowl mix together equal parts of glue and starch.
 - Add food coloring if desired.
 - Play with Gak and discuss its properties.
 - What does it look like? Feel like?
 - Can you form shapes?

Crayon Stained Glass

- Materials:

- Crayons
- Oil
- Cotton balls
- Paper



- Steps:

- Draw a picture using thick black outlines and colored in with crayon
- On the back dip a cotton ball in cooking oil and run it over the whole surface
- Hang your picture in the window!

Ivory Soap

- Materials:

- Ivory Soap
- Microwave
- Plate
- Paper towels
- Water



- Steps:

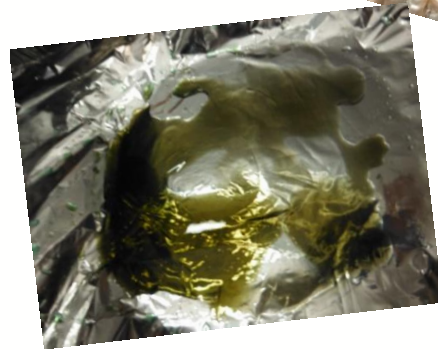
- Microwave Ivory Soap for no longer than 2 minutes
 - What happens? The soap has a lot of air mixed in, do you think this is why?
- After cooling, touch the soap
 - What does it feel like?
- Mix soap, some torn up paper towels and a little water to create a fun dough from the soap!



Tug O' War

- Materials:

- Water
- Foil
- Rubbing alcohol
- Dropper
- Food coloring



- Steps:

- Drop a **very** thin layer of water on the aluminum foil. (Less messy version: use a foil sheet pan with foil laid in it)
- Add food coloring in any combination as long as it is dark
- Put rubbing alcohol in small cup and use dropper to see what happens when it touches the water
 - It pulses! See if you can split the water!
 - The pictures do not do it justice- its very cool to see in person

Sticking Cup

- Looking for a cool party trick: Challenge your friends to see if they can get a cup to stick to a balloon!

- Materials:

- Balloon
- Cup



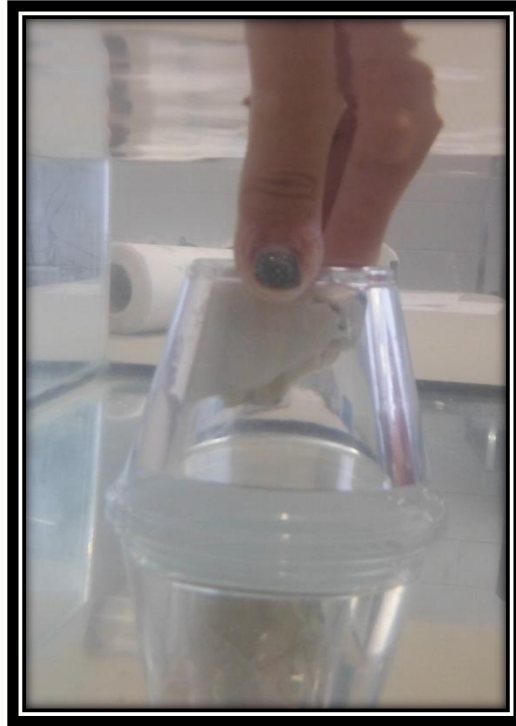
- Steps:

- Blow up the balloon about 1/3 of the way
- Stick the cup and hold on with one hand
- Blow up the balloon the rest of the way!

Invisible Shield

- Materials:

- Cup
- Papertowel
- Tub
- Water



- Steps:

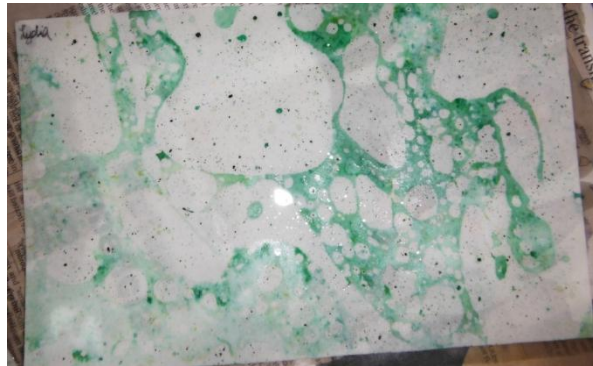
- Bunch up papertowel in bottom of cup (if necessary use tape)
- Fill tub up with water
- Flip cup **straight** upside down and dunk in water!
 - What happened to papertowel?
 - It didn't get wet because there is air in the cup – the water

Oil and Water on paper

- A fun craft mixed with science?!

- **Materials:**

- Food coloring
- Water
- Oil
- Tub
- Paper



- **Steps:**

- Fill tub $\frac{1}{2}$ way with water. Add food coloring to desired color
- Put oil in a separate cup. Mix in food coloring as well.
 - What does it look like? What happens when you mix it?
- Put some oil in the water. Using a fork or toothpick to mix it.
- Lay the paper on top until you see the bubbles and then lift it off. Put it on newspaper to dry.



Density Tower

- Students play a huge role in this science investigation!
😊

- **Materials:**

- Test tube, water bottle, or glass
- Dish soap
- Syrup
- Honey
- Water
- Rubbing alcohol
- Food coloring
- Cooking oil



- **Steps:**

- Dye the water and rubbing alcohol two different colors so they are easily visible.
- Put the different liquids in the container in any order you choose
 - What do the levels look like?
 - Which ones are above water? Which ones are below?
- What happens when you add salt to the top
 - Did you see bubbles? Where does the salt settle?

Color Dance

- Materials:

- Milk
- Shallow pan
- Food coloring
- Q-tips
- Dish soap



- Steps:

- Fill the pan a little bit up with milk.
- Add food coloring in different spots in the milk
- Dip a toothpick in dish soap and put it in the middle of the milk.
 - What happens?
 - Try it on the side- what happens then?

Glowsticks



- Materials:
 - Glow sticks
 - ADULT HELP
- Steps:
 - We examined what was inside a glowstick. 2 different liquids- a clear and a tube with another liquid.
 - The liquids combine when you break a glowstick
 - We put the 2 liquids in 2 separate cups then mixed them together. We experimented with mixing colors!
 - Glowsticks should only be handled by adults- most are non-toxic but carefully read the instructions and wear gloves when handling.
 - I mixed glowsticks with Harry Potter potion, its like a glowing lava lamp!

Baking Soda and Vinegar

- Great for younger ages, or anyone that LOVES to play!
- Materials:
 - Dropper
 - Vinegar
 - Food coloring
 - Baking soda
 - Pie pan
- Steps:
 - Put a layer of baking soda in the bottom of the pan.
 - Fill some cups with a little vinegar and add different colors of food dye
 - Use droppers to put vinegar on baking soda and watch what happens!



Painting with M&Ms

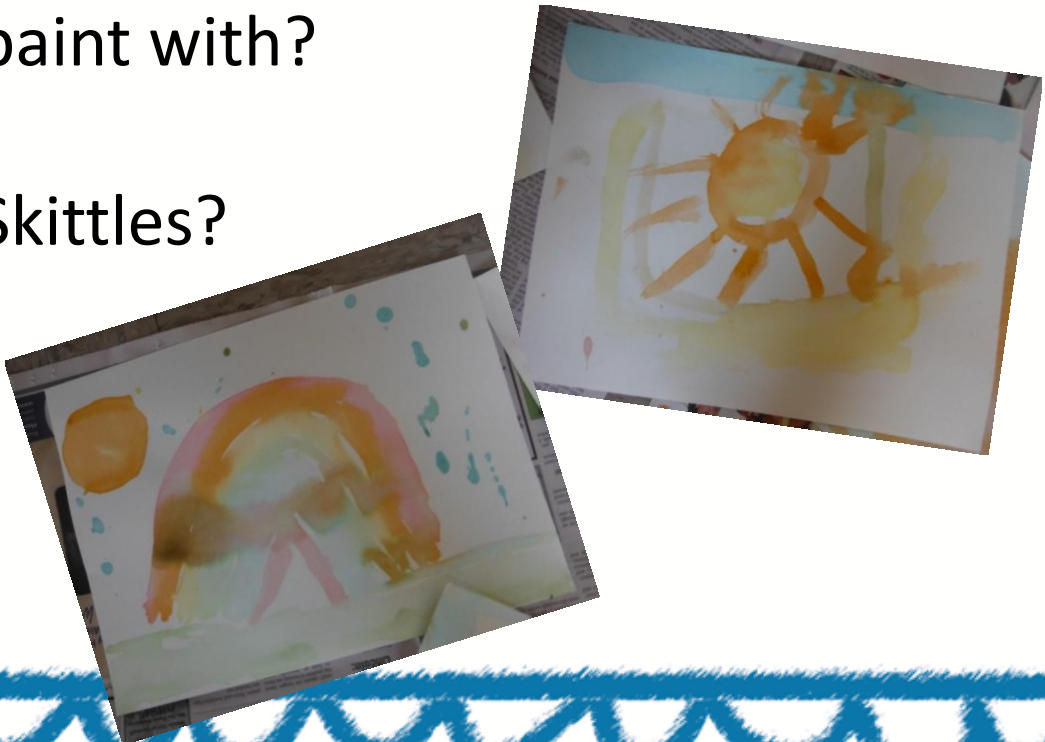
Put M&Ms in a little bit of Water and use paintbrushes to Paint.



It gives your paintings a nice shine

What other candies could you paint with?

Skittles?



Static Electricity Experiments

- 1. Charge a balloon and see which of these things you can pick up:
 - Cornstarch
 - Salt and pepper (together)
 - Cinnamon
 - Rice Krispies
 - Anything other lightweight you want to try
- 2. Charge a comb or balloon and see if you can bend a stream of water
- 3. Charge balloons and use them to race aluminum cans without touching



Glow in Dark Slime

- Materials:

- Borax
- Water
- Bowls
- Food coloring
- Glow in Dark Paint
- Glue



- Steps:

- Solution 1: 1 tsp Borax and 1 cup warm water
- Solution 2: ½ cup water and ½ cup glue + food coloring or paint
- Mix 2 solutions together, first with spoon and then by hand
- Turn off the lights and enjoy!

Oil Bubbles



- Layer rubbing alcohol (colored) over water. See how one stays on top of other.

- Using a dropper layer in some oil...where does it go?

It stays in the droplet form and looks pretty cool

Naked Egg Experiment

- Materials:

- 2 eggs
- Vinegar
- Water
- Cups



- Steps:

- Fill 2 cups with water and vinegar.
- Drop eggs in! Leave for a couple days
 - Make observations every day
 - What other liquids would you like to test?
 - What happens to the egg in vinegar- its shell dissolves and it becomes a little bouncy

Lava Lamps

- Materials:

- Oil
- Water
- Baby food jar
- Food coloring
- Alka Seltzer Tablets



- Steps

- Fill botter $\frac{1}{2}$ way with oil and the other half with water
- Add food coloring
- Drop in Alkasetzer tablets and watch the bubbles



Ant Restaurant I

- Materials:

- Plates
- Food coloring
- Water
- Sugar
- Dropper



- Steps:

- Mix water with sugar and pour in 4 cups.
- Dye the solutions 4 different colors.
- Using a dropper put them on a plate
- Leave outside for 15-30 min
- Check to see what color(s) the ants like most?

Ant Restaurant II

- Materials:

- Plate

- Various foods:

- Honey, honeydew, sugar, candy, lemon juice, cheese, peanut butter



- Steps:

- Put foods in small portion on plate.

- Guess which foods ants will like best

- Leave outside for 15-30 mins
- See if your predictions were correct!

Diaper Science

- Materials:

- Super absorbent diapers
- Ziploc bags
- Water
- Food coloring



- Steps:

- Cut bottom out of diapers
- Put in bags and shake!!
- Dump the small crystals (looks like sugar – DO NOT EAT)
- Add some food coloring to water and use a dropper to see how much water the crystals can hold!
 - It forms a gel that is almost dry feeling to the touch
 - This material can hold up to 100x its weight in water!

Shrinky Dinks

- Materials:
 - Number 6 (Very Important) plastic cups
 - Sharpies
 - Toaster Oven
- Steps:
 - Cut bottom off cup and cut hole in middle
 - Draw a design with Sharpie
 - Put in toaster oven (350) for a little while and watch it shrink!

Marshmallow Shooters

- Materials:

- Marshmallows
- Plastic cup
- Scissors
- Balloon
- Tape or rubber band



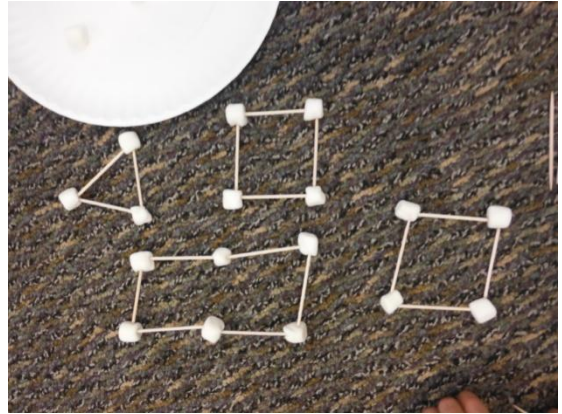
- Steps:

- Cut plastic cup in half. Cut out the bottom
- Blow up balloon, tie balloon, pop with a small hole (using pen) near the base
- Cut off the top 1/4th of the balloon
- Pull the balloon to stretch over the bottom of the cup
- Tape where balloon meets cup for reinforcement
- Load with marshmallow, pull back on balloon and launch! These can go far!

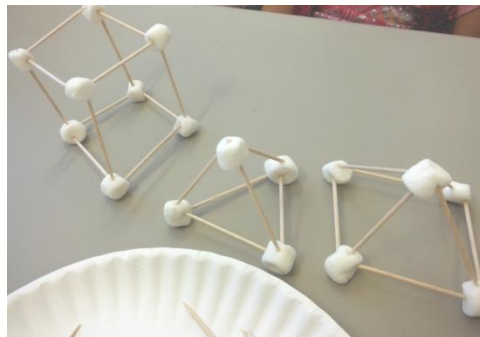


Marshmallow Structures

- Materials:
 - Toothpicks
 - Marshmallows



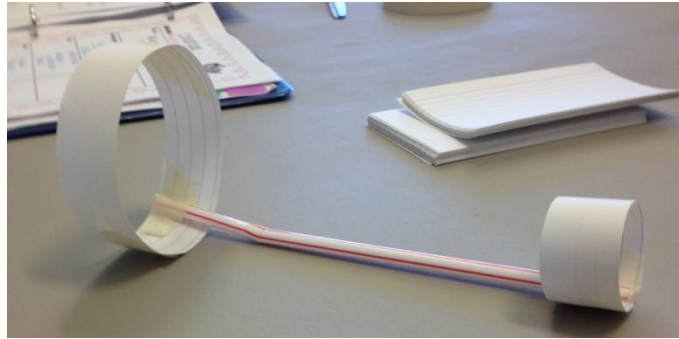
- Steps:
 - Using these materials to build structures.
 - Try 2D vs. 3D (cube, pyramid, etc...) shapes
 - See how high you can build a structure



Straw Planes

- Materials:

- Straws
- Notecards
- Scissors
- Tape



- Steps:

- Fold a notecard in 3 lengthwise. Cut along the lines so you have 3 strips.
- Use one strip, put in circle, and tape.
- Using 2 other strips make a big circle and tape
- Tape both circles in a row lined up on the ends of the straw. Straw should be inside the circles. (See pic for reference)

Treasure Rocks



- Materials:
 - 1 cup coffee grounds
 - ½ cup salt
 - ¼ cup sand
 - 1 cup flour
 - ¾ cup water
 - Small trinkets/prizes
- Steps:
 - Mix all ingredients together. Form circles and put small prize inside.
 - Bake at 150 degrees for 2 hours
 - Let air dry for a couple days
 - Crack open to find the prizes!

Cloud Dough

- Materials:
 - 4 cups flour
 - ½ cup baby oil



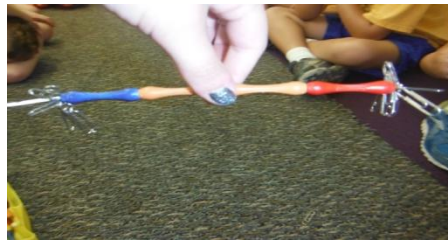
- Steps:
 - Mix together and PLAY
 - Make an ice cream shop
 - Build a castle
 - Talk about the 5 senses
 - How does dough feel
 - How does dough smell

Balloon Game

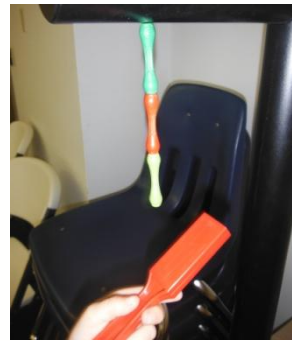
- Materials:
 - Balloons
 - string
- Steps:
 - Tie balloons to ankles.
 - Designate a playing area either on carpet or grass
 - Try to pop the other opponents' balloons by stepping on them
 - No pushing or
 - grabbing

Magnet Play

- Test strength of magnets by seeing how many paper clips they hold up



- See if you can control a magnet underneath the table



- Try to make the magnets move in circle



Absorption Experiment

- Materials:

- Water
- Paper towels
- Food coloring
- Cups



- Steps:

- Fill 3 cups up $\frac{1}{2}$ way with water
- Dye 2 of the cups different colors
- Roll up 2 paper towels and place from one cup to middle cup. (See picture)
- Leave for at least an hour and see what happens
 - What new colors can you make?

Chromatography

- Materials:

- Paper towels
- Variety of markers
- Water



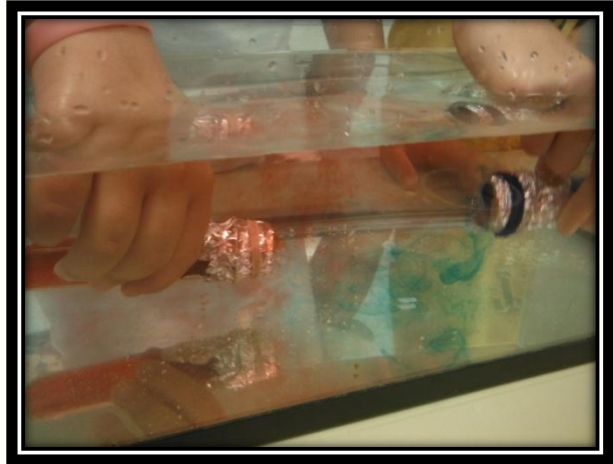
- Steps:

- Place a small circle of each color marker about 2-3 inches from edge of paper towel
- Set paper towel so barely the edge is covered in water
- Watch what happens! What colors make up the other colors!
 - Try different brands and see what happens
 - Black is always interesting.

Hot and Cold Water Currents

- Materials:

- Empty aquarium
- Water
- Test tubes
- Aluminum foil
- Toothpick
- Food coloring



- Steps:

- Fill aquarium at least $\frac{1}{2}$ way with tap water
- Fill 2 test tubes: one with hot and one with cold water. Dye hot water red and blue water blue
 - Put foil on top and secure with rubber bands.
- Place in aquarium sideways and poke with toothpick
- Watch what happens when the colors come out.
 - Where do they go?
 - Which colors goes where?
 - What happens over an extended period of time?
 - Do they mix?

Floating Paper Clip?

- Materials:

- Paper clips
- Fork (optional)
- Cup with water



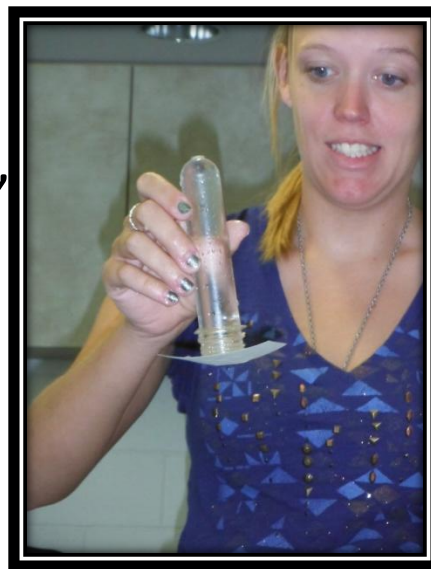
- Steps:

- Drop a paper clip in the water
 - Does it float or sink?
- Try either using a fork or bending a paper clip so it looks like an “L” shape.
- Use it to lower another paper clip right on top of the water. It floats!

Water Magic

- Materials:

- Small cup, baby food jar,
 - test tube
- Note card or cardstock
- Water
- Dropper



- Steps:

- Fill up cup or test tube up to very top!
 - Use dropper to put more water in so it almost looks like a bubble over the top
- Gently place the notecard on top and press slightly till you can see the outline on the back.
- Flip it over! It forms a seal!
 - Practice over a sink or bowl then show off this cool magic trick to your friends.

Float/Sink Items

- Materials:
 - Anything you want
- Steps:
 - Predict first if they will sink or float and why?
 - Try out the items
 - Were any of them surprises?

Rain Clouds

- Materials:

- Water
- Shaving cream
- Food coloring
- cup



- Steps:

- Fill a cup $\frac{1}{2}$ way with water
- Put shaving cream on top of water
- Drop food coloring on top of shaving cream and let it fall through the water.

Blubber Experiment

- Materials:

- Crisco
- Ice water
- Plastic bags



- Steps:

- Turn a plastic bag inside out and grab quite a bit of Crisco.
- Turn it inside out and put another plastic bag inside.
- Put one hand in ice water and then place the other one in the Crisco bag
 - Which one keeps you warmer?
 - The blubber insulates your hand so it doesn't get as cold?
 - What other animals use this?

Insulators

- Materials:

- Ice cubes
- Salt
- Aluminum foil
- Newspaper
- 4 bowls



- Steps:

- Get 4 bowls
 - Put a plain ice cube in one
 - Put ice cube with salt on it in one bowl
 - In 3rd bowl, put ice cube with newspaper wrapped around it
 - In 4th bowl, put ice cube with aluminum foil around it.
- Record observations every 10 minutes.
- See which works as the best insulator.

Salt and Ice

- Materials:
 - Salt
 - Bowl
 - Food coloring
 - Ice



- Steps:
 - Get ice cubes and put salt on them
 - Put food coloring on top.
 - Watch what happens?
 - Put more salt on!
 - Can you put salt on and then take the crusts off.

Paper Clip Magnet Trick

- Materials:

- Paper clips
- Magnet
- Jar
- Tape
- String



- Steps:

- Put string through paper clip then tape to bottom of jar (or baby food jar)
- Hold magnet so it stands straight up. Flip the jar over watch it still stand straight up

Microwave Puffy Paint

- Materials:

- Self-rising flour
- Water
- Salt
- Food coloring



- Steps:

- 1 tbsp flour, 1 tbsp salt, water, 4 drops food coloring. Mix together to form a thin paste
- Paint on thick paper.
- Microwave for 20 seconds.
 - Puffs up in microwave! Dries hard!

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