

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:**

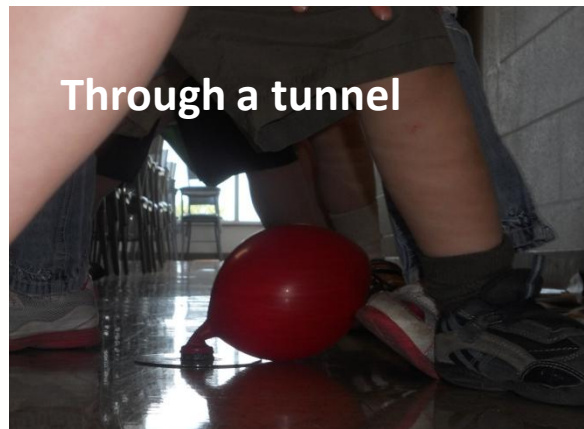
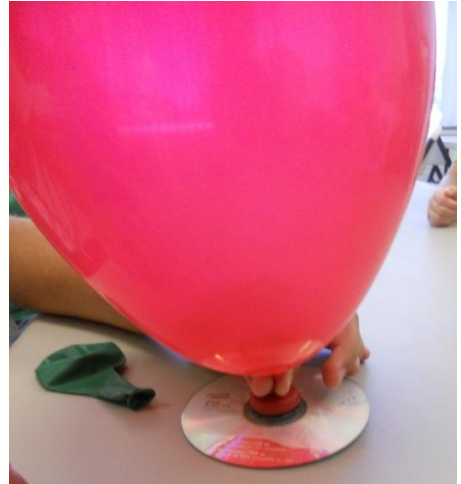
- Put layer of shaving cream in bottom of tub
- Drop watercolors in sparingly
- Swirl (not mix!) with toothpick until desired design
- Gently push paper on top. Wipe off excess shaving cream and dry
- *These would be great backgrounds or cards for other projects 😊



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

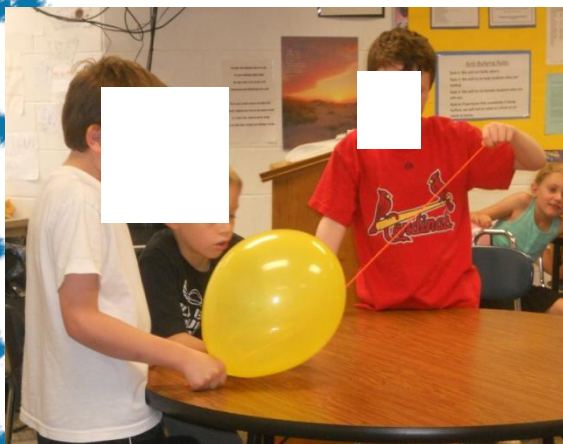
- **Materials:**

- 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



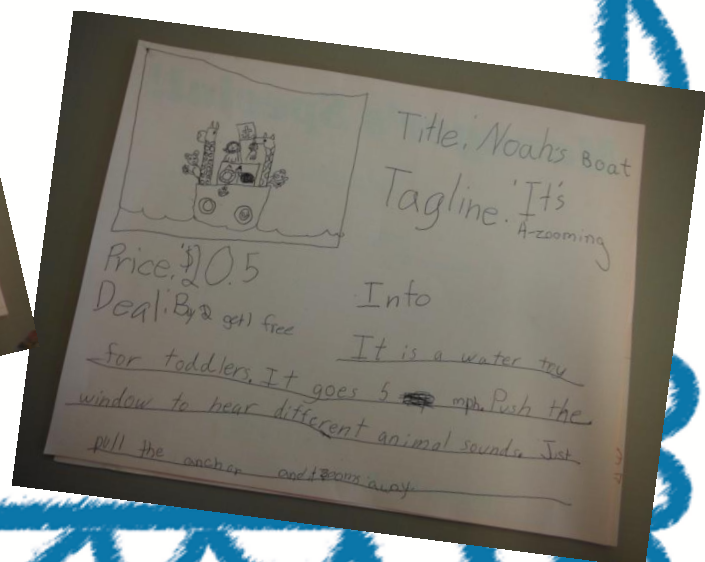
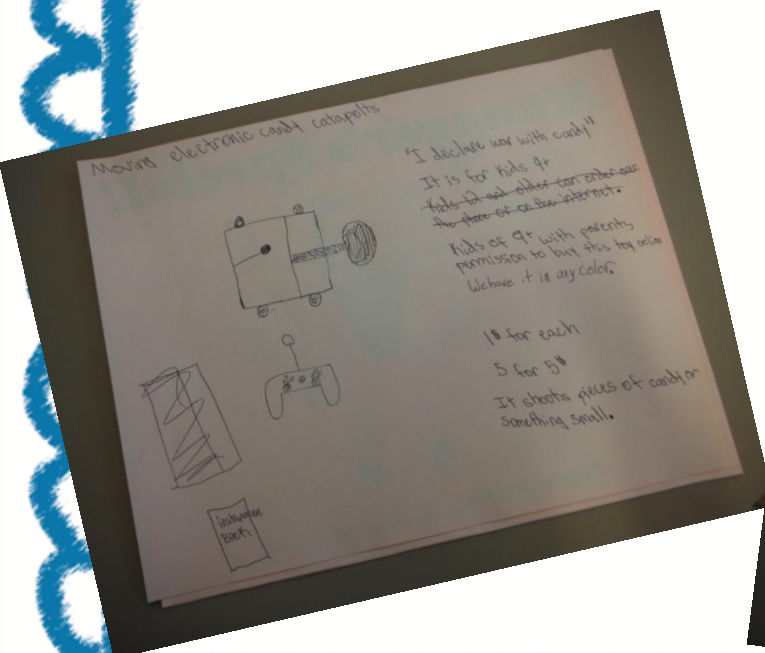
- Steps:
 - Fill a cup about $\frac{1}{2}$ way with warm water.
 - Put Skittles and M&Ms in water face up. Watch what happens!
 - The Ms and S's should float to the top!

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

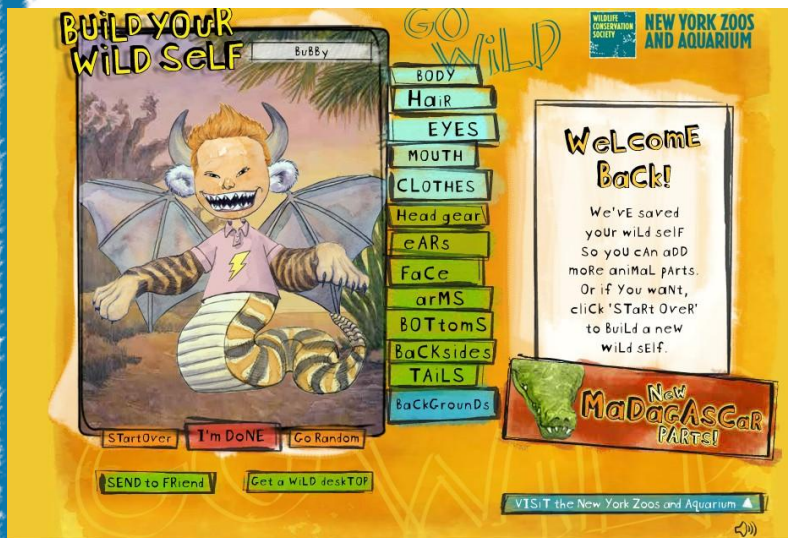


- Steps:

- 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

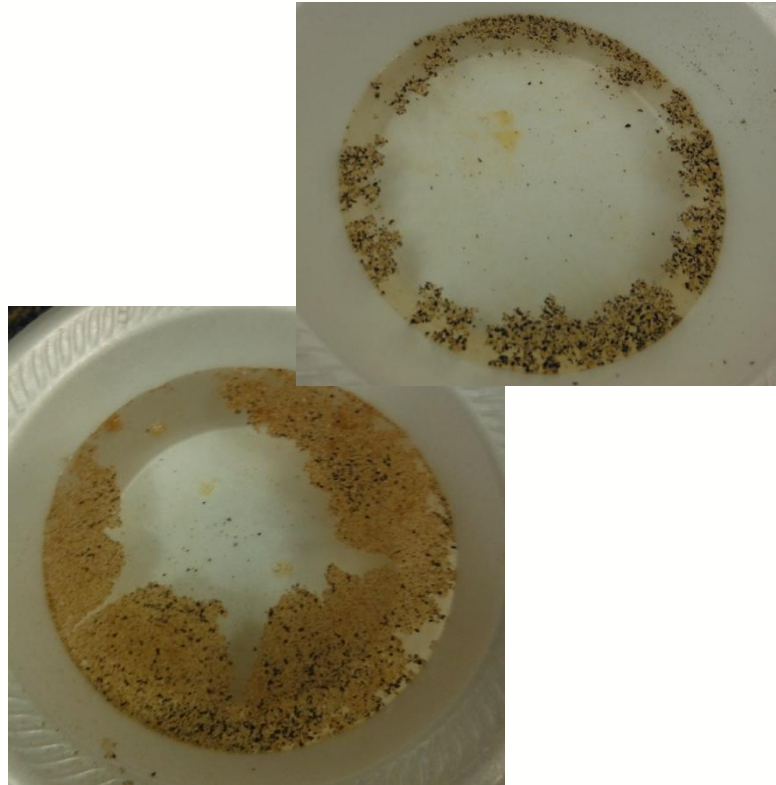


- Steps:

- 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?



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

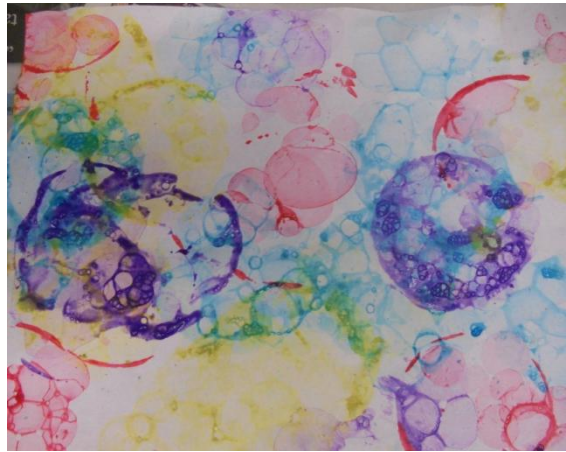


- Lastly squeeze a lemon first then add the juice
 - Watch for fizzing.
 - For more fun: Add ice cubes with food coloring to make a color changing drink! 😊
 - Shake them up and see what happens- watch out!
- Add glowsticks to Harry Potter Potion (adult)

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