

# Colourful Rainclouds

## What you need:

- A couple of clear glasses, vases, or bowls (it's fun to switch up the shapes and sizes!)
- Food colouring
- Shaving cream
- Small bowls or containers that hold 1 to 2 ounces
- Water
- An eye dropper, syringe or 1/4 teaspoon measuring spoon

## Instructions:

1. Start by filling the small containers with water.
2. Add different colours of food colouring to each of the small containers.
3. Fill a clear glass with water about 2/3 full.
4. Add a generous amount of shaving foam.
5. Use the eye dropper (or syringe, or 1/4 tsp measuring spoon) to drop the different colours of water onto the shaving cream cloud.



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St. Michael's House

# Fun Science Experiments!!



All of these activities require adult assistance and supervision.

Have Fun!!

# Skittles Rainbow

## What you need:

- A plate or container – preferably white
- Skittles
- Warm water

## Instructions:

1. Place your skittles into plate/ white container, try to alternate the colours (red then green then orange and so on).
2. Slowly pour warm water into plate/ container



# Wizard's Brew

## What you need:

- Glass jar
- Deep plastic tray
- Vinegar
- Food colouring
- Glitter
- Washing-up liquid
- Baking soda
- Plastic containers

## Instructions:

1. Place the jar into the large deep plastic tray/container.
2. Fill the jar halfway with vinegar then add a few drops of food colouring and some glitter.
3. Squeeze in some washing-up liquid and stir.
4. Add a heaped teaspoon of baking soda and stir.
5. To keep the reaction going keep adding baking soda and vinegar when the foam starts to slow.
6. Make it change colours by adding a tablespoon of vinegar mixed with one food colour every so often.



**Tip:** the more you stir the mixture, the faster the reaction!



# Corn-starch Slime!

## What you need:

- Corn-starch
- Water
- Food colouring
- Container

## Instructions:

1. Place 2 cups of corn-starch and 1 cup of water into a mixing bowl.
2. Add some food colouring and stir until smooth.
3. When you catch up some of the mixture and squeeze it it seems solid but when you open your hand the mixture liquefies and runs through your fingers!



4. You can also pick some up and place it in a container with holes!



5. Or mix different colours in different bowls and then splatter them on a page.



# Bubble Snake

## What you need:

- Bowl
- 300ml water
- Washing-up liquid
- 500ml bottle
- Scissors
- Washcloth or J-cloth
- Elastic band
- Food colouring (optional)

## Instructions:

1. Make bubble solution:
  - a. Pour 2-3 tablespoons of washing up liquid into a bowl with 300ml of water.
  - b. Stir well and let the solution sit for a few hours so the solution can strengthen.

2. Preparing the bottle:

- a. Carefully cut the end off a clean, empty 500ml plastic bottle. This should be completed by an adult.



- b. Cover the bottom of the bottle with a piece of fabric such as a washcloth or J-cloth. Use an elastic band to keep the fabric in place.



Once frozen, pull the balloon off the frozen egg...you might need scissors to get it started, but once it starts coming off, it's really quite easy.



Don't they look cool! It's almost a shame to SMASH them...except that's where the REAL fun starts!

## Step 5

Take a hammer and start excavating to get to those Dinosaurs!

We started out with some very child friendly plastic hammers, but they were really not doing the job! So then we tried using a standard 'Dad' hammer and it worked a treat! (please note, I gave strict instructions to Master 5 before he started and we also used safety goggles – I highly recommend you do the same...there is no fun in injuries!)



Alternatively you can pour warm water over the dino eggs to melt them away!

# Frozen Dinosaur Eggs

## What you need:

- Balloons (the larger sized ones work best – we used 30cm rounds)
- Small Plastic Dinosaur Toys
- Water
- Food dye (optional)
- Hammer
- Safety goggles

## **Instructions:**

### **Step 1**

Take your toy Dinosaurs and insert them into the balloons...at first this will seem difficult, but once you get onto the second one it's very easy! Just gradually worm the balloon over the Dinosaur ensuring to be a little gentle as you don't want to pierce the balloon with any spiky dino parts.



### **Step 2**

Take your Dino-stuffed balloon and fill it with water! You can also add a few drops of food colouring at this point for extra effect!

### **Step 3**

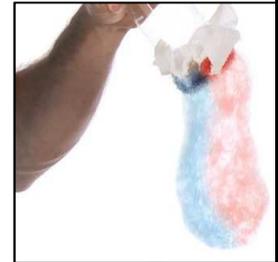
Transport your future frozen fossils to the freezer and let them freeze overnight.



3. Dip the fabric-covered end of the bottle into the bowl of bubble solution.



4. Blow into the top opening of the plastic bottle to make a foam snake!

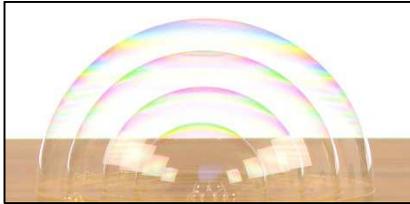


## **Optional:**

If you want coloured bubbles, add a few drops of food colouring to the fabric before dipping it in the bubblesolution.



# Bubble Inside a Bubble Inside a Bubble!



## What you need:

- Cup
- 250ml water
- Tablespoon sugar
- 2 tablespoons washing-up liquid
- Scissors
- Small plastic pipette

## Instructions:

1. Pour 250 ml of water into a cup. Using warm water can be helpful.
2. Add a tablespoon of granulated sugar to the water.
3. Add 2 tablespoons of washing-up liquid to the water.
4. Stir gently with the spoon until all of the sugar dissolves. If you have time cover the cup with cling-film and let it sit for a day so the solution can strengthen.
5. Use a scissors to cut off about 1cm from the bulb end of the plastic pipette.
6. Find a clean, smooth surface with no bumps or pits.
7. Use your fingers to spread some of the solution on a 20-25cm circle on the table.



4. Place the cotton bud into the middle of the milk and hold it there for 10-15 seconds.



5. Add another drop of washing-up liquid to the tip of the cotton bud and try it again. Experiment with placing the cotton bud at different places in the milk.

# Colour-changing Milk!

## What you need:

- Milk
- Plate or shallow dish
- Food colouring
- Washing-up liquid
- Cotton bud

## Instructions:

1. Pour enough milk into the plate to completely cover the bottom to a depth of about  $\frac{1}{2}$  cm. Allow the milk to settle.
2. Add one drop of each of the 4 colours of food colouring to the milk. Keep the drops close together in the centre of the plate of milk.

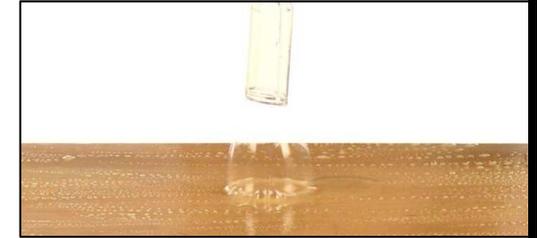


3. Place a drop of washing-up liquid on one end of the cotton bud.

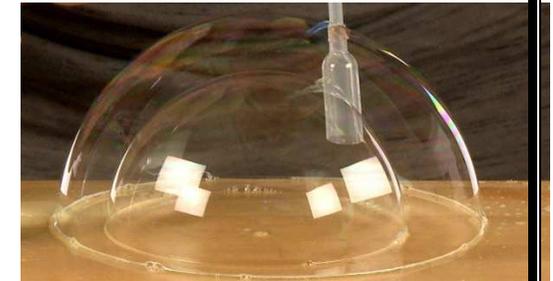


8. Dip the cut end of the pipette into the solution so it is completely coated.

9. Blow a bubble hemisphere onto the wet surface of the table. Make it a fairly large bubble.



10. Dip and coat the pipette completely again and gently push it inside the first bubble. Blow a second bubble inside the first bubble.



11. Go for a 3<sup>rd</sup> and 4<sup>th</sup> bubble...etc.

# Lava Lamp

## What you need:

- Small bottle or glass
- Vegetable oil
- Water
- Food colouring
- Alka-Seltzer tablet

## Instructions:

1. Fill the bottle  $\frac{3}{4}$  full with vegetable oil.
2. Fill the rest of the bottle with water (almost to the top but not overflowing).
3. Add about 10 drops of food colouring. Be sure to make the water fairly dark in colour.



4. Divide the Alka-Seltzer tablet into four pieces.



5. Drop one of the pieces of Alka-Seltzer into the bottle. Watch what happens!

6. When the bubbling stops add another chunk of Alka-Seltzer.



You can also use different shaped glasses or a torch under the glass to highlight the colours!



# Exploding Volcano!

## What you need:

- A volcano: this can be made out of paper mache or clay/sand if you're in a hurry! Or just use a jar or glass either!
- Small jar to be placed inside the 'volcano'
- Baking soda
- Washing-up liquid
- Red and yellow food colouring
- Vinegar

## Instructions:

1. Place the 'volcano' structure (with the jar in the middle) in a large tray.
2. Add 2 spoons of baking soda to the jar.
3. Add 1 spoon of washing-up liquid.
4. Add around 5 drops of red and 5 drops of yellow food colouring.
5. Now for the eruption! Add about 30ml of vinegar into the jar and watch the volcano come alive!

