



**SCIENTISTS
IN SCHOOL**

Messy Outdoor Science

Bubble Fun

Materials:

- ¼ cup corn syrup
- ½ cup clear ivory dish soap
- Enough water to make 1L of solution

Procedure:

1. Dissolve the corn syrup in a small amount of water by stirring vigorously.
2. Dilute this syrup solution to 1L with water.
3. Carefully add ivory dish soap and stir gently.

What-have-you Bubbles Wands:

1. Strawberry baskets: Dip a small plastic mesh strawberry basket into the soap solution and wave it around to make millions of tiny bubbles
2. Pop Bottle: cut the end off of the bottom of a pop bottle. Dip the cut end into the soap solution to form a film across the bottom and blow into the bottle like a trumpet.
3. Rubber bands: dip a rubber band into the soap solution and stretch it into different shapes with your fingers.
4. String: Cut a piece of string one metre in length and thread two straws onto it. Tie the string into a loop. Hold one straw in both hands and dip your bubble wand into the soap solution. Walk around to create enough wind to fill the gigantic bubble.
5. Pipe cleaners: Shape pipe cleaners into squares, triangles and 3-D shapes to create unique bubble wands.
6. Straws: Fill a plastic plate with solution and use a straw to create nestled bubbles (bubbles within bubbles.) Blow a large bubble in the middle of your plate, insert your wet straw into the bubble and blow a second bubble inside the first. How many can you nestle?

Have your Students explore materials and build structures with tactile sculpting materials like cloud dough, fizzy snow dough and moon sand:

Cloud Dough

Materials:

- 8 cups of flour
 - 1 cup of vegetable or baby oil
- To prepare the dough, knead the flour and oil together for a couple of minutes until it starts to clump. Add cookie cutters, measuring cups and spoons, small plastic shovels and other plastic toys.

Scientists in School is a Canadian registered charity, registration number: 8671139537RR001

www.scientistsinschool.ca

Messy Outdoor Science - 1

Fizzy Snow Dough

Mix:

- 1 box of baking soda
- 1 can of shaving cream

Things to try:

1. Have fun with this moldable, snow dough! Make snow balls, snowmen and other interesting shapes. Then you can spritz your creation with a spray bottle containing 5% vinegar for some fizzy fun.
2. Press the snow dough into a baking pan or the bottom of a large plastic container to make a flat canvas. Tint some vinegar with food colouring in a variety of colours. Have children paint on the 'snow canvas' with a paint brush and the coloured vinegar. Once your canvas is complete, you can scrape off the fizzy top layer to expose a clean surface and start again for hours of outdoor fun!

Moon Sand

Have your students explore materials and build structures using moon sand.

Materials:

- 4 cups of play sand
- 2 cups of cornstarch
- 1 cup of water
- 2 Tbsp coloured paint powder
- Glitter (if desired)

Procedure:

1. Mix the sand and cornstarch in a large container.
2. Add the water in increments until the desired consistency is reached. It should be crumbly like pastry. Add paint powder and mix in with your fingers.
3. Add glitter, if desired.
4. Have children build structures and explore the material with any available tools: cups, shovels, containers, cookie cutters etc.