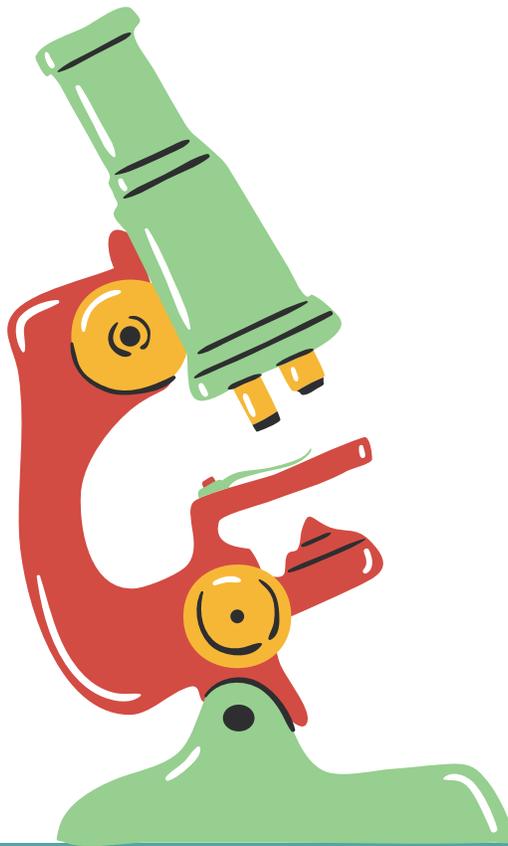


WEEK 6



SILLY SCIENCE

Summer Fun Pack



SILLY SCIENCE SUMMER FUN PACK

Day 1

Moon Sand Making
Pudding Slime

Day 2

Melting Ice Painting
Ice Volcanoes

Day 3

Paper Airplanes
Storm in a Glass

Day 4

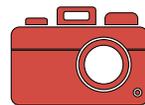
Sun Printed Fabric
Sundial

Day 5

Lava Lamp
Egg Drop

Snack!

Homemade
Ice Cream



Take photos and share it
with #SummerFunPack



Check out the Municipality of
Shelburne Youtube on Tuesdays
for a Fun Pack Video



Ensure you are being Sun Safe
while outside!



SILLY SCIENCE

DAY 1

Moon Sand Making

Supplies

- Flour
- Baby oil

Instructions

- Mix all the dry ingredients and add oil.
- Add the food colouring to water.
- Slowly add the water until the desired consistency is reached
- Kneading will help to improve the texture, knead until it has the desired texture
- Play!
- When done keep in air-tight container to keep the fun for days

Pudding Slime

Supplies

- 1/4 cup Powdered Pudding
- 1 cup Cornstarch
- 1/3 cup Warm Water

Instructions

- In a large to medium sized bowl, pour all of the pudding in
- Next pour about half of the cornstarch in
- Get warm water from the tap then it in with the rest
- Stir everything together with a spoon until it starts to get slimy looking then add in the rest of the cornstarch and keep stirring
- You can now use your hands to mix it even more
- And viola! You now have your own slime that should smell good and is even safe to taste, but depending on the pudding used may not taste all that great, or if you drop it on the floor

SILLY SCIENCE

DAY 2

Ice Painting

Supplies

- Salt
- Water
- Food Colouring/Paint

Instructions

- On Monday freeze ice cubes with food dye, if you don't have an ice cube tray take coloured water and add to a bowl or plastic bag
- Take a piece of paper, preferably cardstock or watercolor paper and put ice on top
- Add salt to the top, this makes the ice melt because of a safe chemical reaction
- If it is really hot day you could just leave the ice in the sun to melt and save some salt
- Tilt the paper to make the ice slide all over
- Do this with multiple colours until your painting is done

Ice Volcanoes

Supplies

- Baking Soda
- Vinegar

Instructions

- Add 1-2 cups of baking soda to very warm water, mix until the baking soda is dissolved in the water Put mixture into tray and freeze overnight
- Take mixture out and put it outside in an area you don't mind getting messy, or in a bin inside
- Add drops of vinegar to the mixture(optionally add food dye to vinegar)
- The more vinegar you add the more likely it will smoke, this is because the vinegar is creating a chemical reaction and the temperature is changing
- Your Ice Volcano is a perfect example of the classic acid + base reaction. As our Ice Volcano is made from baking powder it is a base (or alkali!). The vinegar that we add is an acid. When we mix the acid and the base (vinegar and baking powder) we get a chemical reaction. Those bubbles that you can see are bubbles of carbon dioxide.
- The eruption should be slower, but last longer than a typical at home volcano.

SILLY SCIENCE DAY 3

Paper Airplanes

Supplies

- Paper
- Tape

Instructions

- This will be a little difficult and I suggest you don't do this in class, but if you do, I didn't teach you. Understood?
- Fold the paper in half by the longer side then unfold.
- Take the top corners and bring them down to the middle so they are next to each other
- Now take the new top corners and bring them down to the middle so you have point at the top
- Fold your plane in half again so the folded parts are touching
- Finally fold each wing down so they touch the bottom of the paper, straighten the wings out and now you have your own airplane. DO NOT THROW IT AT OTHERS

Storm in a Glass

Supplies

- Glass
- Water
- Shaving Cream
- Food Dye

Instructions

- Use your finger or a spoon to spread the shaving cream evenly over the top of the water. The top of the shaving cream should be flat.
- Mix $\frac{1}{2}$ -cup water with 10 drops of food coloring in a separate container.
- Gently add the colored water, spoonful by spoonful, to the top of the shaving cream. When it gets too heavy, watch it storm!
- What's happening? Clouds in the sky hold onto water. They can hold millions of gallons! The layer of shaving cream is our pretend cloud in this experiment. Eventually clouds get too heavy from holding all that water! When that happens, the water falls out as rain, snow, sleet, or hail.

SILLY SCIENCE

DAY 4

Sun Printed Fabric

Supplies

- 100% white cotton fabric
- Acrylic craft paint
- Paint brushes
- Water in a bowl or small bucket
- A flat surface outdoors – not wood
- Nature materials (leaves, flowers, etc.)

Instructions

- Dilute the paint with water at a 1:1 paint to water ratio.
- Wet the fabric in a bowl of water and squeeze it out until it is no longer dripping.
- Lay it flat on a non-porous surface and paint the fabric with a big paintbrush.
- As soon as you are done painting, press the leaves and flowers top side down onto the painted fabric, making sure the edges of the leaves and flowers lie flat.
- Leave the fabric out in the sun for 1-2 hours. If it is really hot, it helps to mist the fabric during the first 30 minutes to an hour.
- Remove leaves. When the fabric is completely dry, peel off the leaves and flowers
- Set the paint. Place the fabric in the dryer on high for 1 hour.

Sundial

Supplies

- Paper Plate
- Pencil
- Marker/Crayon

Instructions

- On the back of a paper plate write the numbers 1- 12 like a clock on the outer edge
- Now cut a small hole in the middle of the plate to push the pencil through
- You can decorate the plate however you'd like just make sure you can still read the numbers
- Go outside into the open where the sun can always shine on the plate
- There will be a shadow made by the pencil
- Check the time and then rotate the plate until the shadow covers the same number
- You can now tell the time of day with your sundial

SILLY SCIENCE SNACK

Ice Cream in a Bag

Supplies

- 2 Tablespoons sugar
- 1 cup half and half
- 1/2 teaspoon vanilla extract
- 1 gallon freezer bag
- 1 quart freezer bag
- 1/2 cup salt



Instructions

- Open a quart size bag and add sugar, half and half, vanilla extract and chocolate syrup. Seal the bag.
- Open gallon ziplock bag and fill halfway with ice. Sprinkle 1/2 cup of rock salt over the ice.
- Place your quart sized bag inside the gallon bag and seal. Double-check your bags to make sure they're well-sealed. Shake the bags vigorously until ice cream forms.
- Enjoy! your cool treat!

The Science Behind It!

The ice in the ziplock bag has to absorb energy from its environment in order to melt. Adding salt to the ice lowers the freezing point of ice from 32°F to about 20°F, so the ice needs to absorb even more energy to melt. The ice absorbs heat (energy) from the ice cream ingredients which it comes into contact with, as well as the outside environment. As the ice absorbs heat from your ingredients, the ice cream begins to freeze.

SILLY SCIENCE THURSDAY IN PERSON ACTIVITY!

In Person Activity Thursday July 30

While respecting guidelines and restrictions put in place due to COVID-19 we are planning to do a physically distanced science experiment stations. Due to COVID-19 we ask that all participants respect the guidelines issued ensuring they remain physically distances, conduct good personal hygiene and hand-washing, and avoid large social gatherings.

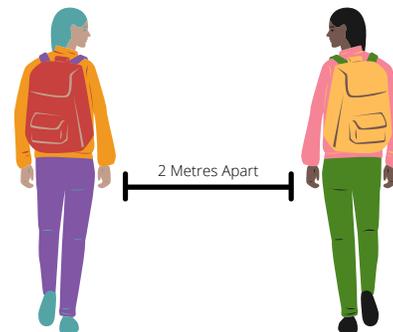
This will be led by our Summer Recreation Staff. We ask that parents remain with their youth during this activity and ensure they are staying 2 metres away from other families during the event.

Where

Welkum Park

When

10:00 am-
11:30 am



What

These activity will be stationed so that we can ensure sanitation of equipment between uses. We will have different activities offered that can ensure physical distancing occurs during the activities.

We will focus on experiments that allow us to learn and have tons of fun. This event aims to bring participants out to connect while physically distancing by being involved in science fun!

We ask that you ensure you are bringing clothing you don't mind getting messy. Please bring your own sunscreen and bug spray. We will not be on the waterfront, and there will be no lifeguard present.

SILLY SCIENCE

DAY 5

Lava Lamp

Supplies

- Salt
- Water
- Baby Oil
- Tall Glass/Container

Instructions

- Fill your tall container up to two thirds (2/3) full of water
- Add some oil and wait for a layer to form, the oil should float on top of the water
- Now sprinkle your salt and watch the science happen.

Egg Drop

Supplies

- Rubber Bands
- Tissue Paper
- Tape
- Household OddsN'Ends
- Egg

Instructions

- Grab anything you can think of that would protect an egg from breaking and set it out in front of you
- The goal here is to make something that will protect the egg if you drop it, whether from the table or the roof of a house (Adult Supervision is Advised)
- Work as a team to design an amazing egg protector, try a parachute, a cage, or anything else that may work
- When you are done, get an adult to drop it from increasing heights until the egg breaks or you can't go any higher
- Good Luck Builders