

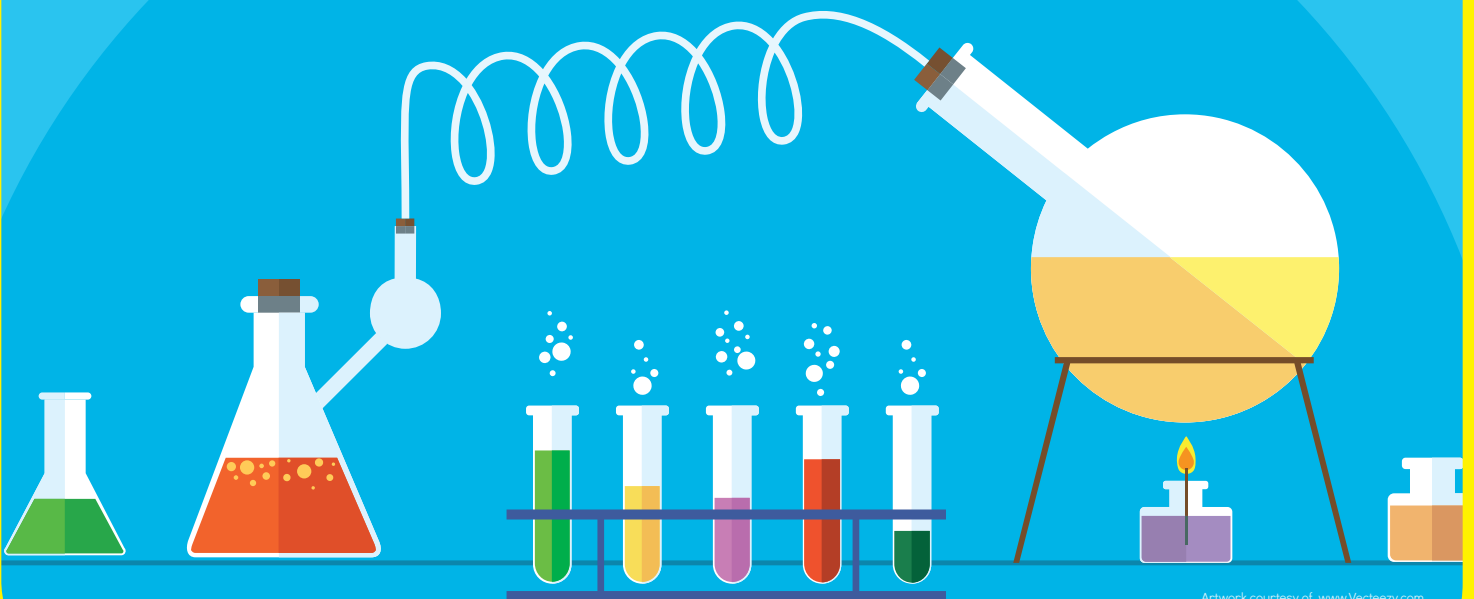
monthly mini dates

OCTOBER

- soda geyser
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- grow your own monster
- dancing worms / grapes
- memory page



Science Fun



Artwork courtesy of www.Vecteezy.com

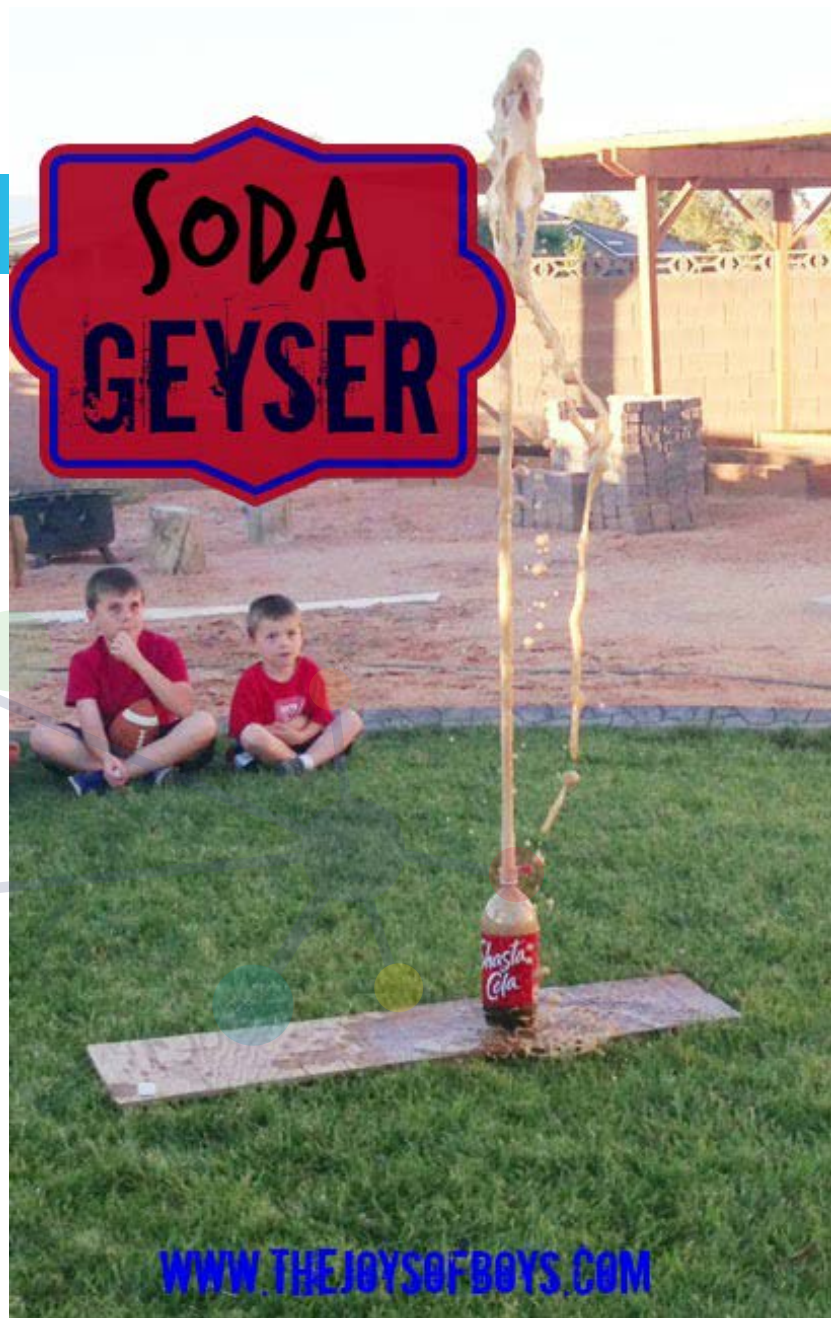
Soda Geyser



This Soda Geyser is one of my all-time favorite science experiments to do with my boys. It involves something exploding so of course it is right up their alley!

SUPPLIES:

- 2 Liter Diet Soda in a plastic bottle (Make sure to purchase several bottles to keep the fun going.)
- Mentos (mint flavored)
- Geyser Tube (this is totally optional but makes the experiment SO much easier and a lot more fun.)



This experiment is quite simple, especially if you are using the geyser tube. Find an area that you won't mind getting sticky and set up a 2 liter bottle of Diet Soda. Add 4-6 Mentos and step back to enjoy the geyser. It's that simple. The nice thing about the Geyser tube is that you can add the Mentos before hand and then twist the tube onto your soda. When you are ready, you can just turn a knob that allows for the Mentos to fall in all at once instead of trying to rush to get as many in as possible by hand before it explodes.



Baking Soda Volcano

Using some simple supplies that you probably have around the house, you can make this fun volcano!

SUPPLIES:

- Paper plate
- Paper or plastic cup
- aluminum foil
- tape
- scissors
- large cookie sheet
- 2 TBLS water
- red food coloring
- 2 TBLS Baking soda
- 4 TBLS White Vinegar



STEP 1: Tape the cup to the center of the paper plate.

STEP 2: Cover the cup and plate with a piece of foil and fold the foil around all of the edges of the plate.

STEP 3: Cut an X in the top of the foil and fold down the tabs and tape them to the inside of the cup.

STEP 4: Put your volcano in the center of a large cookie sheet and add the water, baking soda and several drops of red food coloring into the cup.

STEP 5: Slowly pour in the vinegar.

STEP 6: Watch your volcano erupt again and again.

HOW IT WORKS:

The chemical reaction between baking soda (sodium bicarbonate) and vinegar (acetic acid) produces carbon dioxide gas, which forms bubbles, making the volcano erupt.



Grow Your Own Monster

SUPPLIES:

- Plastic bottle, such as an empty water bottle
- 1/2 C Vinegar
- 1 Tbls Baking Soda
- Balloon
- Marker to draw on the balloon
- Funnel



STEP 1: Draw a spooky face on your balloon (Just a note, once the balloon is blown up you will have to draw over it to make it darker.)

STEP 2: Use the funnel to pour 1 Tbls of baking soda into the balloon.

STEP 3: Use the funnel to pour 1/2 C Vinegar into the water bottle.



STEP 4: Attach the balloon to the top of the water bottle without tipping the baking soda into the vinegar.

STEP 5: Carefully tip the balloon up and let all of the baking soda fall into the vinegar and watch the creation begin. Your monster will begin to grow!



HOW DOES IT WORK? When vinegar (an acid) and baking soda (a base) combine they react and Carbon Dioxide is released. When you have a balloon on top of the water bottle, that Carbon Dioxide is trapped and it blows up the balloon. We were surprised that it happened so quickly!

Dancing Worms / Grapes

This is one of the coolest and easiest science projects around!

SUPPLIES:

- 2 tall, clear cups or containers, any type of clear cup will do
- Some clear carbonated soda – we used Sprite
- Water
- A variety of Fruit but mostly raisins/craisins and grapes, the older the better

STEP 1:

Fill one cup with water and the other with carbonated soda.

STEP 2:

Let your kids take turns guessing what they think will happen when they drop different types of fruit into the water vs. the soda. Will it sink or float. You can chart your predictions on paper.

STEP 3:

Drop in a grape and some raisins into the water and see what happens. They should sink to the bottom.

STEP 4:

Do the same for the carbonated soda and watch what happens. Initially the fruit might sink but soon after it will pop back up to the top only to do that dance over and over again. Down, up, down, up, and maybe you'll see a few spins in there. Those fruit have moves!



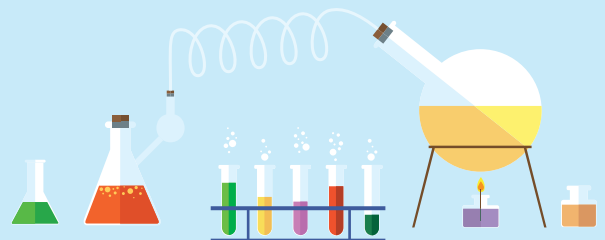
HOW DOES IT WORK? This experiment is all about the density of the fruit vs the of the liquid it is in. When you drop the raisins into the water, they are more dense than the water and the sink to the bottom. No dancing raisins. Boo! But when you drop them into the soda, the Carbon Dioxide bubbles actually grab onto the surface of the raisins, decreasing the density and allowing them to float to the top. When they are at the top, the bubbles pop and the raisin sinks back to the bottom only to start the dance all over again until the carbonation is all gone.



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Our favorite activity was:

place a photo of your favorite memory here



Fun things we did together:

