

Explore Lab Science Video Library

Milk Magic (plastic milk and tie dye milk)

Link: <https://youtu.be/wul801Q57Gc>

Have fun combining art and science. Go into your fridge and find some milk!? What? Milk? The Explore lab science team will show you how by using milk and a little bit of science you can create some cool art. It's magic!!

Chromatography Creations

Link: https://youtu.be/qTR1HFgs_gc

Join the explore lab science team in learning how chromatography works and making fun art using household items. This easy and productive activity is sure to spark some creativity in all ages while learning something new!

Elephant Toothpaste

Link: <https://youtu.be/Hnv48VLleSc>

Making elephant toothpaste is the perfect way to make science fun and accessible at home! Elephant toothpaste is the combination of found-at-home ingredients that creates an explosion of fluffy paste for an elephant to use as toothpaste. This experiment is easy and safe experiment and illustrates the importance of catalysts in a chemical reaction.

Learning About Germs

Link: <https://youtu.be/NHQrlhOrwbA>

Sometimes it is hard for children to understand the importance of covering their mouths when they sneeze and washing their hands because they cannot see the germs. This video will visually demonstrate how easily germs spread and how easily you can discard germs by washing your hands. We hope that through these demonstrations, children will have a better understanding of infectious agents and will be more encouraged to wash their hands!

Edible DNA

Link: <https://youtu.be/qtj31zyuLH0>

Edible DNA? Yes, learn to make your own DNA model from licorice and marshmallows. It's easy to make and tastes good too!

Density Tower

Link: <https://youtu.be/Ksl3Vsz9dPQ>

Learn to build a tower of liquids using density. Density is the ratio of the mass of a substance compared to its own volume. Using density, you can create layers of liquids to build colorful towers.

Drinkable Density Tower

Link: https://youtu.be/m0C_7Dqs77k

Looking for a fun summer drink to make with your friends? Try this drinkable density tower. The Explore Lab Science team will show you how to create a refreshing new drink using a science concept called density.

Walking Rainbow

Link: https://youtu.be/59pB6_orcjc

Learn about capillary action by making a Walking Rainbow. It quick and easy. Enjoy watching the colors mix while learning about the science of capillary action. The student will also be introduced to adhesion and cohesion all while making a beautiful rainbow of colors.

Lemon Volcano

Link: <https://youtu.be/3URFWnjbYT8>

Do you enjoy experiments like an erupting volcano or elephant toothpaste? Here is an experiment you can do at home with a lemon (or any citrus fruit) and some other basic ingredients found at home. The lemon volcano will produce less mess and will also smell good.

Solar Powered Oven S'mores

Link: <https://youtu.be/NhILFdGv8CQ>

Are you craving a S'more but it's too hot for a campfire? Harness the heating power of the sun by making a simple solar powered oven to cook your graham cracker, marshmallows, and chocolate. Yummmmmm!!

Sustainable Energy (Potato Batteries)

Link: <https://youtu.be/ko56MlthVT4>

Potatoes can come in numerous forms: mashed, hashed, smashed, fried, boiled, and more! But did you also know that potatoes can provide electricity?! This video illustrates potatoes' ability to provide an alternative form of energy that may one day power the world!

Lava Lamp

Link: <https://youtu.be/JNbHGZ2Aq6U>

Lava Lamps are a fun science experiment. Making a Lava Lamp explores density and molecular polarity. Density is the measure of a physical quantity per unit of length, area, or volume. Molecular polarity refers to the tendency of molecules to be attracted to other molecules. Enjoy watching your Lava Lamp erupt with activity!

Sorcery or Science, aka Baby Diaper Secret (polymers)

Link: <https://youtu.be/RJWc1Jq2Sjk>

Grab a top hat and a white rabbit because this video is going to demonstrate how to do some real-life magic! For this mind-boggling experiment, all you need are some cups, diapers, and an audience. Trick your friends and family by making water disappear in front of their very eyes, and then impress them with your knowledge of water and polymers.

Making Butter

Link: <https://youtu.be/1xNwTLiPIyU>

Join Explore Lab Science as they make butter from scratch using just one ingredient. In this video, you'll learn about states of matter and how they apply to this tasty experiment.

Milk Bottle Experiments

Link: <https://youtu.be/i1gheM7OPUE>

With only a few basic materials, you can demonstrate the concepts of atmospheric pressure, gravity, and surface tension at home! These milk bottle experiments are sure to boggle your mind and get you thinking about the forces that are all around us. These experiments are quick and easy, making them great for kids at home. For more experiments like these, please visit www.michigan.gov/explorelabscience.

Fireworks in a Jar

Link: https://youtu.be/Kn2S-mU7I_Y

Do you enjoy fireworks but without the heat and noise? You can make your own firework show year-round by using simple ingredients found at home. Join explore lab science to show you how.

Dancing Raisins

Link: <https://youtu.be/i6A6dFI4QGI>

Did you know you can make food dance? The kind of food we are using are raisins, so put on some music and Join explore lab science team to show you how you can make them dance.

Make Your Own Cell Pizza or Cell Cookie

Link: <https://youtu.be/t2-5mdsPx9w>

Decorate your pizza or cookie to look like a human cell. Learn about the different parts of an animal cell and their functions by using different toppings to represent the different organelles of a cell. Then enjoy your treat!

Eggshell Sidewalk Chalk

Link: <https://youtu.be/o64rOPM3S7s>

Make sidewalk chalk by recycling eggshells. Calcium carbonate in eggshells is a key ingredient of chalk. For more scientific experiments visit our website at www.michigan.gov/explorelabscience.

How to Extract DNA from a Strawberry

Link: <https://youtu.be/WccVG7YngLY>

Learn how to extract DNA from strawberries with a few simple household items! This experiment is quick and easy. It is also excellent for introducing students to basic genetics and microbiological concepts.

Rubber Chicken Bone Experiment

Link: <https://youtu.be/s3adDZiCO8U>

Turn a chicken bone into a rubber bone in just a few steps! Learn the importance of having calcium in our diets to build strong bones.

Musical Instruments

Link: https://youtu.be/GoR_oRrRR1o

Join Explore Lab Science as they make several fun instruments at home while discussing soundwaves and vibrations.

Elephant Toothpaste version 2

Link: <https://youtu.be/ViCnnWMsYM4>

Making elephant toothpaste is the perfect way to make science fun and accessible at home! Elephant toothpaste is the combination of found-at-home ingredients that creates an explosion of fluffy paste for an elephant to use as toothpaste. This experiment is easy and safe experiment and illustrates the importance of catalysts in a chemical reaction.

Alka Seltzer Rockets

Link: <https://youtu.be/mjM1pvCysEc>

BLAST OFF!!! Make and decorate a paper rocket and propel it into the atmosphere powered by Alka-Seltzer and water. Show off your physics knowledge with a demonstration of Newton's third law of motion.

Fun With Bubbles

Link: https://youtu.be/5_m8vXPm4Zs

Explore fun ways to play with bubbles. We will show you how to make giant bubbles, little bubbles, make square bubbles or hold the bubbles in your hands. You'll also learn how to make bubble mix with ingredients found at home.

Kitemaking

Link: <https://youtu.be/MIq3wZ9xHdg>

Flying a kite is an easy and fun summertime activity. Learn to make your own kite from supplies found at home. Then as you fly your new kite, explore the four forces of flight: lift, weight, thrust, and drag.

Dissolving Can Experiment

Link: : <https://youtu.be/UkUF2cOdIss>

Have you ever wondered how an aluminum can holds soda pop so well? Some sodas are very acidic and could eat away at the aluminum. What does it look like inside the can? The secret is a layer of plastic inside the aluminum can that protects the contents by acting as a barrier between the sodium and the aluminum can. This experiment will expose the plastic liner in the pop can.

Using the Scientific Method, which bouncy ball recipe is the best?

Link: https://youtu.be/F2_j7a3PhHQ

In this video the Explore Lab Science team will experiment with 3 bouncy ball recipes using the scientific method to determine which recipe is best. The Scientific Method is a problem-solving approach used in all fields of science. It ensures that scientific conclusions are supported by evidence.

Medical Office Visit

Link: <https://youtu.be/xfrL7X-uZPA>

Join the Explore Lab Science team as they demonstrate some basic exams you can expect when you visit the doctor. They also discuss what makes up our blood with a fun hands-on activity you can do at home!

Moon Phases

Link: https://youtu.be/PXBYf_qmFRo

Learn about the different phases of the moon with this delicious activity!