# Communities In Schools Summer 2020 Report Elementary Enrichment Activity Kits STEM Literacy Arts



When school districts temporarily closed their doors in March, many children lost a quarter of the school year in classroom time. The spread of COVID-19 has disrupted many things in today's society, one of the most important aspects being our children's education in Aurora. As the end of the school year arrived and COVID-19 cases were on the rise in Aurora, the decision was made by school districts that facilities would not be available for summer enrichment camps. With limited use of adequate safe space,

the City of Aurora, in partnership with Communities In Schools, elected to provide activity kits to enhance summer learning opportunities to 1000 elementary students weekly in first to fifth grade across Aurora for five weeks.

Communities In Schools is an independent youth-serving organization that provides year-round out of school time programming for children, youth, and families across Aurora with diverse funding from private and public sectors.

Summer programming provides unique experiences for children and youth, representing diverse populations. CIS assists in improving the accessibility and availability of programs and summer activities by reducing barriers to equitable participation to provide quality summer experiences while having access to summer nutrition programs. Summer is a time of greater food insecurity for low-income children and youth who rely on free or reduced meals during the school year. By teaming up with each school district's summer meal distribution locations, we were able to get activities directly into student's hands. Youth need a balance of both structured and unstructured activities for optimal development. With that in mind, many of the activities provided were intentional to allow students to work and play independently or with the assistance of a parent, sibling, or relative each week.

Kits were distributed weekly at five locations in West Aurora School District 129 (Hill, McCleery, Washington, and West High School), four locations in East Aurora School District 131 (Allen, Benavides, Cowherd, and East Aurora High School), one location in Indian Prairie School District 204 (Georgetown), and one location in Oswego School District 308. These locations were summer meal distribution locations made available by each school district, with the exception of Oswego since their only meal distribution location was at Oswego East High School. We offered kits instead to students from Wolfs Crossing, Homestead, and The Wheatlands, at Wolfs Crossing each week. Any students attending an elementary school in Aurora could attend any of our weekly locations.

Kids are eager to learn and to engage with the people around them. Having hands-on activities to be creative, explore, experiment, and read books gives them this opportunity to have fun while learning with a parent or relative and explore new words, concepts, and ideas.

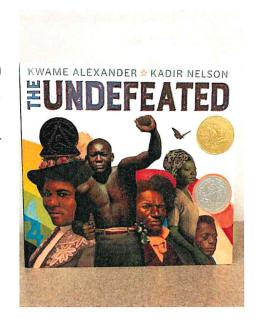
Week one – SciTech Museum provided students with kits with experiments and activities that included physics, biology, flight, chemistry, and entomology. Students could dissect an owl pellet, build and fly an airplane by the force of a rubber band, combine ingredients to make giant bubbles, and many other activities. The goals of this summer kits was to better understand a variety of sciences through hands-on, inquiry based learning, which offers them an additional opportunity to build math and literacy skills during the summer and increase young people's interest in STEM-related subjects and increase the chance that they will pursue STEM-related careers.





Week two – Aurora Public Arts provided students with kits that had both engineering and art activities. Students could build a structure made out of one-inch blocks to recreate a house designed by Frank Lloyd Wright. Students learned to repeat lines and patterns in a wave using a color wheel. Students were able to explore African folklore by making their own Water Spirit mask out of construction paper and making colorful paper Mache by using various design elements of different shapes, colors, and textures using a balloon, tissue paper, glitter glue, and stickers. The goal was to target individual artistic expression, fine motor skills, engineering skills, and a variety of tools and techniques.

Week three – Aurora Public Library provided students with an awarding winning book "The Undefeated", by Kwame Alexander and illustrated by Kadir Nelson with the distinction of both the Caldecott winning and Newberry Honor for books. This book allowed students to exam how both art and the written word help us bear witness to what is happening in our community and world. It brought light to activism along with political or social changes. Students were provided watercolors to create their own colorful illustrations. This kit's goal was for participants to understand the meaning of social justice and activism and increase their knowledge of black history and key figures in that history.



Week four – SciTech Museum provided students with kits with experiments and activities that included physics, chemistry, robotics, geology, and geometry. Participants

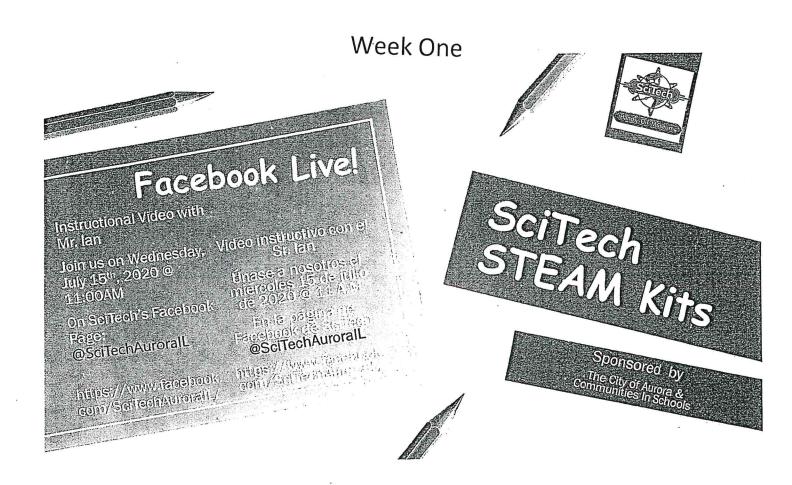
polished stones, built rockets using various ingredients to determine the best chemical reaction such as water, vinegar, baking soda, aka seltzer tablets, increased math knowledge by measuring ingredients, and used tangrams to build shapes, a notepad to document their hypothesis and results. The goal of this kit was to gain a better understanding of a variety of sciences through hands-on activities.



Week Five – Aurora Public Library provided students with a journal with prompts to write about and challenged students to draw various items such as a chicken crossing the road or an imaginary friend. The library provided a list of other books to inspire students on the journaling journey. This kit's goal was for participants to gain knowledge about the different uses of journals to record ideas and thoughts and increase their understanding of journal-like novels.

Each week the community partner provided a live or pre-recorded demonstration for all activities included in the activity kit on either Facebook or YouTube for students and families to follow along. All written instructions were provided in English and Spanish in each kit as well.

The following are the weekly activity kit instructions provided by each community partners.



# Raffle Rifa

Enter To Win By Emailing SciTech a Picture of Your Favorite Activity! SciTech will post your picture on Facebook!

guests@scitechmuseum.org

Please include the following:

Parent First and Last Name, Email and Zipcode ្រាស់ ប្រើប្រជាធារាធាន ខ្លាប់ពេទ្ធ away two-រុកស្រាស់ មានស្រាស់ ម៉ាងទេ winners will be រុកស្រាស់ មានស្រាស់ មានស្រាស់ ប្រាសេទ្ធ in August

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ા પાક તાલું મુખ્યાન મનાલાલાં મામેક છે. બાંધા reolbirse antes del

lIngrese para ganar enviando un correo electrónico a SciTech con una imagen de su actividad favorital lSciTech publicará tu foto en Facebookl guests@scitechmuseum.org Por favor incluya lo siguiente: Nombre y apellido del padre, correo electrónico y código postal

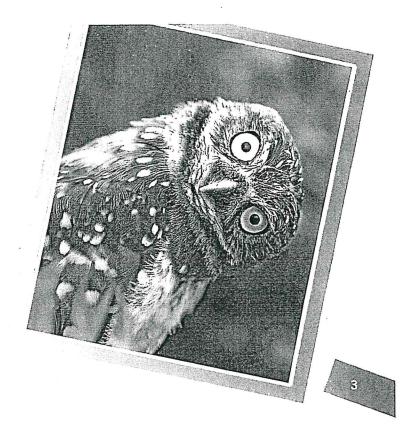


Barn Owl's Lunchbox Lonchera el Granero de la lechuza común

# What is that? Is it POOP? No, it's an owl pellet! ¿Qué es eso? ¿Es POOP? ¡No, es una bolita de búho!

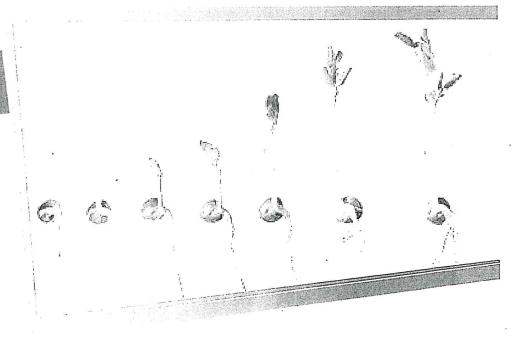
- In this activity discover what a barn owl ate by dissecting the meals leftovers. So put on your gloves and explore what the owl left us!
- En esta actividad, descubra qué comía una lechuza disecando las sobras de las comidas. ¡Ponte los guantes y explora lo que nos dejó la lechuza!

Use the instruction sheet in the activity bag. Use la hoja de instrucciones en la bolsa de actividades.



Let it Grow! ¡Déjalo GRECER!

From seeds to stems explore the life cycle of a plant. Start your very own garden from seeds and watch your plants grow big and strong. By the end of the summer you might even be able to eat what you grew!



Desde semillas hasta tallos, explore el ciclo de vida de una planta. Comience su propio jardín con semillas y observe cómo sus plantas crecen grandes y fuertes. Para el final del verano, jincluso podrías comer lo que cultivaste!



In this activity we will be planting seeds and recording our observations in our notebooks. An observation is watching something to gain more information.

Once your plants are planted, write your observations in your notebook once a day. Your observations could include, what you see, feel, or smell from your plant. Make sure to include the date and what plant you are observing in your observations.

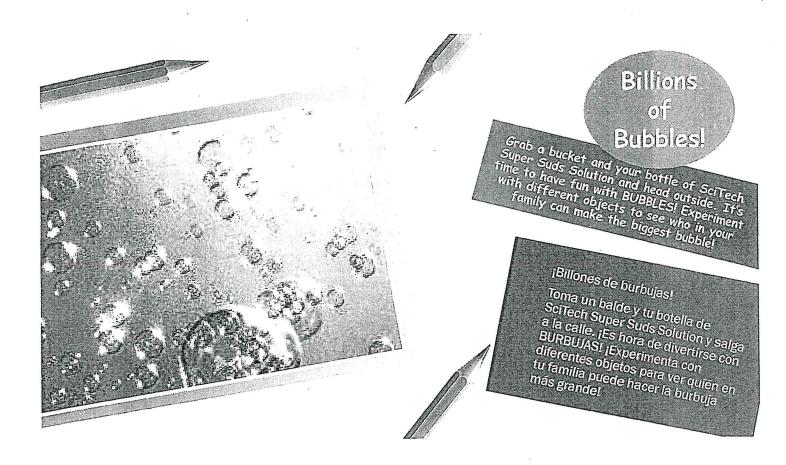
#### Directions:

- 1. Take the wrapper off of all the soil pellets. Place 2 soil pellets in each cup.
- Pour about 1/2 of water into each cup and let the soil pellets soak up the water. This will take about 5-10 minuets. Once the water is soaked up use your finger or a spoon to stir up the soil.
- 3. Use your finger, or the handle of your spoon, to make a 3-5 small holes in the soil.
- 4. Sprinkle some seeds into the the holes. Make sure that there is only one type of seed per cup.
- 5. Cover the seeds with some of the remaining soil and water each cup.
- 6. Place the cups in front of a sunny window. Make sure to water your seeds and write your observations every day.
- 7. Once your plants are big enough you may transfer them in to your home garden if you would like to. Moving them to the garden will help them grow even bigger and produce flowers and food!

En esta actividad estaremos plantando semillas y tomando nota de nuestras observaciones en nuestros cuademos. Una observación es mirar algo para obtener más información. Una vez que tus plantas estén plantadas, escribe tus observaciones en tu cuademo una vez al día. Tus observaciones pueden incluir lo que ves, como se siente o como huele tu planta. Asegúrate de incluir la fecha y la planta que estás observando en tus notas.

#### Instrucciones:

- 1. Retira el envoltorio de todos los gránulos de tierra. Coloca 2 gránulos de tierra en cada taza.
- 2. Vierte aproximadamente 1/2 de agua en cada taza y deja que los gránulos de tierra absorban el agua. Esto tomará entre 5 y 10 minutos. Una vez que el agua esté absorbida por la tierra, use tu dedo o una cuchara para remover la tierra.
- 3. Use tu dedo, o el mango de su cuchara, para hacer 3-5 agujeros pequeños en el suelo.
- 4. Rocía algunas semillas en los agujeros. Asegúrate de que solo haya un tipo de semilla por taza.
- 5. Cubre las semillas con un poco de la tierra restante y riega cada taza.
- Coloca las tazas frente a una ventana soleada. Asegúrate de regar tus semillas y escribe tus observaciones todos los días.
- 7. Una vez que tus plantas sean lo suficientemente grandes, puedes transferirlas a tu jardín si lo deseas. ¡Moverlos al jardín los ayudará a crecer aún más y a producir flores y alimentos!



What is a bubble? A bubble is a thin film of soapy water. Most of the bubbles that you see are filled with air, but you can make a bubble using any gasses. The film that makes the bubble has three layers. A thin layer of water is sandwiched between two layers of soap molecules.

You will be able to experiment with bubbles with your own family at home! Bubbles are a great outside activity for the entire family to enjoy together.

Some questions to think about while experimenting with bubbles.

- · Can bubbles be different hold different shapes?
- · How can you make a BIG bubble?
- · How small can you make a bubble?

#### Directions:

- 1. In a large clean tub or bucket pour ¼ cup of the SciTech Super Suds Solution and 5 cups of water.
- 2. With a large spoon mix up the water and the SciTech Super Suds Solution. Let the mixture sit for 10 15 min.
- 3. While the solution is setting, use the pipe cleaners to make various shapes. You will use these to experiment with your bubble solution.
- 4. Once you have your shapes made, dip them in the bubble solution and blow your bubbles!

¿Qué es una burbuja? Una burbuja es una película delgada de agua jabonosa. La mayoría de las burbujas que ves están llenas de aire, pero puedes hacer una burbuja con cualquier gas. La película que hace la burbuja tiene tres capas. Una capa delgada de agua se encuentra entre dos capas de moléculas de jabón.

¡Podrás experimentar con burbujas con tu propia familia en casal Las burbujas son una gran actividad para el aire libre y para que toda la familia disfrute juntas.

Algunas preguntas para pensar al experimentar con burbujas.

- ¿Pueden las burbujas ser diferentes y tener formas diferentes?
- · ¿Cómo puedes hacer una burbuja GRANDE?
- · ¿Qué tan pequeña puedes hacer una burbuja?

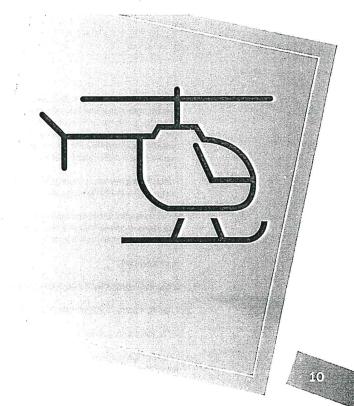
#### Instrucciones:

- En una tina o cubeta grande y limpia, vierte 1/4 taza de la solución SciTech Super Suds y 5 tazas de agua.
- 2. Con una cuchara grande, mezcla el agua y la solución SciTech Super Suds. Deje que la mezcla repose durante 10-15 min.
- 3. Mientras se mezcla la solución, usa los limpiadores de tuberías para hacer varias formas. Los usarás para experimentar con tu solución de burbujas.
- 4. Una vez que hayas hecho tus formas, ¡sumérgelas en tu solución de burbujas y sopla las burbujas!

# Soaring to New Heights Volando a Nuevas Alturas

Discover what it takes for airplanes and helicopters to flyl With your very own rubber band powered helicopter and hand powered SciTech flyer, explore what it takes for these objects to soar into the sky.

¡Descubre lo que hace volar a los aviones y helicópteros! Con tu propio helicóptero con banda elástica y volante manual Schlech, explora lo que se necesita para que estos objetos se elevan hacia el ciclo.



Have you ever seen a helicopter in the air and wonder how they fly? Well it all has to do with air pressure. Air pressure is cause by fast- and slow-moving air. The helicopter has a set of blades on top that rotate extremely fast. The rotating blades move the air up. This causes higher air pressure under the blades and lower air pressure above the blades. The higher pressure under the blades causes lift allowing the helicopter to raise off the ground.

You will be able to experiment with two different types of helicopters. One is powered by a rubber band while the other is powered by your hands.

In your notebook write down your hypothesis, or prediction, of what helicopter might fly better and why. Once you have this written, follow the directions below and test your helicopters and write down your observations of what happened.

#### Directions:

- Follow the written directions on the prepackaged rubber band powered helicopter.
- 3. Put your SciTech Flyer together by placing the blue blade on to the orange stick.
- 5. In your notebook, write down your hypothesis of what helicopter will fly the highest and why.
- GO OUTSIDE and test your helicopters. Follow the directions on the package for how to fly your rubber band powered helicopter. To make your SicTech Flyer work place the orange stick towards the base of your palm on your right hand. Then place your fingertips of your left hand on the orange stick and push forward. BE CAREFUL WHILE FLYING YOUR HELICOPTERS. KEEP THEM AWAY FROM YOUR EYES AND FACE.



- ¿Alguna vez has visto un helicóptero en el aire y te preguntas cómo vuelan? Bueno, todo tiene que ver con la presión del aire. La presión del aire es causada por el movimiento rápido y lento del aire. El helicóptero tiene un juego de hélices en la parte superior que giran extremadamente rápido. Las hélices giratorias mueven el aire hacia arriba. Esto provoca una mayor presión de aire debajo de las hélices y una presión de aire más baja por encima de las hélices. La mayor presión debajo de las hélices provoca un levantamiento que permite que el helicóptero se levante del suelo.
- Podrás experimentar con dos tipos diferentes de helicópteros. Uno es impulsado por una liga de goma, mientras que el otro es impulsado por tus manos.
- En tu cuaderno, escribe tu hipótesis o predicción sobre cual helicóptero podría volar mejor y por qué. Una vez que hayas escrito esto, sigue las instrucciones a continuación, prueba tus helicópteros y escribe tus observaciones de lo que sucedió.
- Instrucciones:
- 1. Sigue las instrucciones escritas en el helicóptero pre empaquetado con banda elástica.
- 2. Arma tu volante SciTech colocando la hélice azul en el palo naranja.
- 3. En tu cuaderno, escribe tu hipótesis de cual helicóptero volará más alto y por qué.
- 4. SAL AFUERA y prueba tus helicópteros. Sigue las instrucciones en el paquete para saber cómo volar tu helicóptero con banda elástica. Para que tu Flyer SicTech funcione, coloca el palo naranja en la base de la palma de tu mano derecha. Luego, coloca las yemas de los dedos de la mano izquierda en el palo naranja y empuja hacia adelante. Ten cuidado al volar tus helicópteros. MANTÉNLOS LEJOS DE TUS OJOS Y TU CARA.





## Solar Sketches Bocetos Solares

Put on your SciTech Sunglasses and make a masterpiece with the power of the sun. Discover how this can be done with a leaf from your yard, a special piece of paper and light from the sun!

Ponte tus gafas de sol SciTech y crea una obra maestra con el poder del sol. ¡Descubre cómo se puede hacer esto con una hoja de tu jardín, un trozo de papel especial y la luz del sol!



Did you know that the Sun is a star? I The Sun is made up of mostly two gasses, hydrogen and helium. The sun is our Earth's source for natural light and heat. The light from the sun not only allows is to see during the day but, also allows things to make shadows!

In this experiment we will be using the sun to make a pice of art. We will be using a special kind of paper called Sun Paper paper. This paper is made with a special kind of chemical that changes colors when exposed to sunlight for a long time.

#### Directions:

- 1. In your yard find a leaf or leaves
- 2. Inside your house, arrange your leaves on your Sun Paper
- 3. Outside, Place the Sun Paper and leaves on a flat surface in the direct sunlight. Remember, where ever the leaves are not at the paper will change colors.
- 4. Let your paper sit for 2-5 minuets in the direct sunlight
- 5. Bring your paper inside and let the paper sit in the water for 1-2 minuets.
- 6. Let the paper dry on your trayl

En este experimento usaremos el sol para hacer una pieza de arte. Utilizaremos un tipo especial de papel llamado papel Sun Paper. Este papel está hecho con un tipo especial de químico que cambia de color cuando se expone a la luz solar durante mucho tiempo.

#### Instrucciones:

- 1. En tu patio encuentra una hoja o varias hojas
- 2. Dentro de tu casa, coloca tus hojas en el papel de sol
- 3. Afuera de tu casa, coloca el papel solar y las hojas sobre una superficie plana a la luz directa del sol. Recuerda, donde las hojas no estén en el papel, este cambiará de color.
- 4. Deje que tu papel repose durante 2-5 minutos a la luz solar directa
- 5. Trae tu papel adentro de la casa y deja que el papel repose en el agua durante 1-2 minutos.
- 6. ¡Deje que el papel se seque en su bandejal

15



# Energía Eólica

Can you use science and fill up a long bag with just one breath? We challenge you to experiment and explore the power of wind!

¿Puedes usar la ciencia y llenar una bolsa larga con solo una exhalación de aire? ¡Te retamos a experimentar y explorar el poder del viento!



How many breaths of air will it take you to fill a plastic bag that's 8 feet long and 10 inches wide? Depending on your size, it may be anywhere from 10 to 50 breaths of air, that is, if you have the stamina for it. However, with a little practice and some knowledge of how to use air pressure differences, you'll be able to inflate the same bag with only one breath!

#### Directions:

Unfold the bad and loosen it up a little by opening in up.
The one end of the bag off with a simple knot. Then put the bag to your mouth and blow 3 big breaths of air into the bag.
Grab the bag near your mouth and squeeze the bag closed. Slide that hand down the bag so you push the air you blew into it toward the knotted end. How did you do? The bag is completely full? How many breaths do you think you will need to fill the entire bag using this method?

enfire bag using this method?
Have a helper hold the knotted end of the Windbag at your mouth level. The bag should be horizontal and straight away from you. Spread out your fingers and use them to make the opening of the bag as wide open as you can get it.
Keep your mouth about 10 inches from the wide-open end of the Windbag. Take a couple of deep breaths and blow one long, single, comfortable breath of air into the opening of the bag. Watch what happens to the bag.
Quickly grab and seal the bag near your mouth with your hand as you did before. Slide your hand forward until it stops. It's likely you'll be surprised! You can either tie off the end with a simple knot as before or push the air out from the knotted end and have your assistant give it a try

What just happened?!
The bag quickly inflates because air from the atmosphere is drawn into the bag along the sides of the stream of air from your lungs. In 1738, a scientist hamed Daniel Bernoulli observed that a stream of moving air is surrounded by an area of low atmospheric pressure. In fact, the faster the stream of air moves, the lower the pressure drops around it. When you blow into the bag, you create an area of low pressure inside the bag. Higher pressure air around you in the atmosphere rushes into the bag to equalize things. In other words, air in the atmosphere is drawn into the bag at the same time you're blowing into it as long as the opening of the bag is not on your mouth.

Did You Know ... Firefighters use Bernoulli's principle to quickly and efficiently force smoke out of a building. Instead of placing the fans up against the doorway or window, a space is left between the opening and the fan in order to force a greater amount of air into the building. Firefighters call this "Positive Air Flow."

¿Cuántas exhalaciones de aire te llevará llenar una bolsa de plástico de 8 pies de largo y 10 pulgadas de ancho? Dependiendo de su tamaño, puede tener entre 10 y 50 exhalaciones de aire, es decir, si tienes la resistencia necesaria. Sin embargo, con un poco de práctica y algunos conocimientos sobre cómo utilizar las diferencias de presión de aire, podrás inflar la misma bolsa con solo una exhalación!

#### Instrucciones:

Desdobla la bolsa y aflójala un poco abriéndola.

- Afarun extremo de la bolsa con un nudo simple. Luego pon la bolsa en tu boca y sopia 3 grandes exhalaciones de aire dentro

- de la bolsa.
  Toma la bolsa cerca de tu boca y cierra la bolsa. Desliza esa mano hacia abajo de la bolsa para empujar el aire que soplaste hacia el extremo anudado. ¿Cómo hiciste? ¿La bolsa está completamente llena? ¿Cuántas respiraciones crees que necesitarás para llenar toda la bolsa con este método?
  Haz que un ayudante sostenga el extremo anudado de la bolsa de aire a la altura de tu boca. La bolsa debe estar horizontal y recta lejos de ti. Extiende tus dedos y úsalos para abrir la bolsa lo más que puedas.

  Mantén la boca a unas 10 pulgadas del extremo abierto de la bolsa de aire. Toma un par de respiraciones profundas y sopla una bocanada de aire larga, única y cómoda en la abertura de la bolsa. Mira lo que le pasa a la bolsa.

  Agaira y sella rápidamente la bolsa cerca de tu boca con tu mano como lo hiciste antes. Desliza tu mano hacia adelante hasta que se detenga. ¡Es probable que te sorprendas! Puedes atar el extremo con un nudo simple como antes o sacar el aire del extremo anudado y hacer que tu asistente también lo haga.

¡¿Qué es lo que acaba de suceder?!

La bolsa se infla rápidamente porque el aire de la atmósfera se introduce en la bolsa a lo largo de los lados de la corriente de aire desde tus pulmones. En 1738, un científico llamado Daniel Bernoulli observó que una corriente de aire en movimiento está rodeada por un área de baja presión atmosferica. De hecho, cuanto más rápido se mueve la corriente de aire, más baja cae la presión a su alrededor. Cuando soplas en la bolsa, creas un área de baja presión dentro de la bolsa. El aire a mayor presión a su alrededor en la atmósfera se precipita hacia la bolsa para igualar las cosas. En otras palabras, el aire en la atmósfera es atraído hacia la bolsa al mismo tiempo que lo soplas mientras la abertura de la bolsa no esté en tu boca.

Sabías que... Los bomberos utilizan el principio de Bernoulli para expulsar de manera rápida y eficiente el humo de un edificio. En lugar de colocar los ventiladores contra la puerta o ventana, se deja un espacio entre la abertura y el ventilador para forzar una mayor cantidad de aire en el edificio. Los bomberos llaman a esto "Flujo de aire positivo".

# Incredible Insects Insectos Increibles

Discover the amazing world of insects in your very own backyard! Be an entomologist and study all the incredible insects that we share our planet with.

¡Descubre el increíble mundo de los insectos en tu propio patio trasero! Sé un entomólogo y estudia todos los insectos increíbles con los que compartimos nuestro planeta.



Did you know that there are at any time on earth there are over 10 quintillion (10,000,000,000,000,000,000) insects on our planet! That's A LOT of insects! Insects help our planet in so many ways. Insects like bees and ant help plants grow by pollinating them. Insects like termites, cockroaches, and flies help breakdown and decompose plants and dead animals. Did you know that there are even insects that eat animal poop! Insects are incredible!

Body sections of insects: Insects have three main body sections. The Head The Thorax The Abdomen

#### **Activity Directions:**

- 1. Use your insect catchers to capture an insect you find outside.
- Look at your insect. What do you see? Record your observations in your notebook. Your observations and be written as words, pictures, or even both!
- Once your observations are complete. Release your insect back into the yard so they can help make the world a better place!
- 4. You can keep catching, observing, and releasing insects as much as you'd like!

#### Did You Know

A person that studies insects in call an entomologist. These people observe and study insects to learn more about these amazing creatures and, how we as humans can help protect them.

¿Sabias que en cualquier momento en la tierra hay más de 10 quintillones (10,000,000,000,000,000,000) de insectos en nuestro planeta? ¡Son MUCHOS insectos! Los insectos ayudan a nuestro planeta de muchas maneras. Los insectos como las abejas y las hormigas ayudan a las plantas a crecer polinizándolas. Los insectos como las termitas, las cucarachas y las moscas ayudan a desfigurar y descomponer plantas, y animales muertos. ¿Sabias que incluso hay insectos que comen excremento de animales? ¡Los insectos son increibles!

Secciones corporales de insectos:

Los insectos tienen tres secciones principales del cuerpo.

La cabeza

El tórax

El abdomen

#### Instrucciones para la actividad:

- 1. Usa tus cazadores de insectos para capturar un insecto que encuentre afuera.
- 2. Mira a tu insecto. ¿Que ves? Apunta tus observaciones en tu cuaderno. ¡Tus observaciones que se escribirán como palabras, imágenes o incluso ambas!
- 3. Una vez que tus observaciones estén completas. ¡Libera a tu insecto en el patio para que pueda ayudar a hacer del mundo un lugar mejor!
- 4. ¡Puedes seguir atrapando, observando y liberando insectos tanto como quieras!

#### Sabias que.

Una persona que estudia insectos se le llama entomólogo. Estas personas observan y estudian insectos para aprender más sobre estas increibles criáturas y cómo nosotros, como humanos, podemos ayudar a protegerlas.

# HAVE A GREAT SUMMER AND WE HOPE YOU ENJOYED YOUR ACTIVITIES! DON'T FORGET TO SHARE YOUR ACTIVITIES WITH SciTech Hands On Museum AND ENTER TO WIN A FREE SciTech FAMILY MEMBERSHIP BY JULY 31,2020!

¡TENGA UN GRAN VERANO Y ESPERAMOS QUE DISFRUTE DE SUS ACTIVIDADES! NO OLVIDES COMPARTIR TUS ACTIVIDADES CON SciTech Hands On Museum ¡Y ENTRE PARA GANAR UNA MEMBRESÍA GRATUITA DE LA FAMILIA SciTech PARA EL 31 DE JULIO DE2020!

v				

Project 1: Block Puzzle

Video demonstration: bit.ly/APAC\_blocks

Inspiration: Falling Water, Frank Lloyd Wright. Bear Run, PA, 1935 (see color photo on the Cover)

#### Introduction:

Frank Lloyd Wright was an iconic American architect. He used new shapes to work with nature and create structures in harmony with the land. Check out his work at the links below.

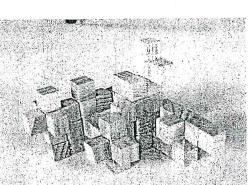
Today, we will be looking at Falling Water, a house he designed and built over a waterfall. We will use blocks to create a 3-dimensional structure to examine form and negative space. The blocks will stick out like the cantilevers Wright used in Falling Waters, creating space for a body of water to pass through

#### Supplies:

- 36+ half-inch wooden blocks (available at the dollar store or craft store)
- Glue

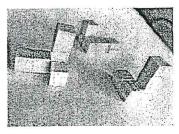
#### Instructions:

- 1. Glue two blocks together using only a small drop of glue.
- 2. Give the glue a short time to dry before picking up the glued blocks.
- 3. Glue 2-6 additional blocks to the first two. Glue the extra blocks where they will stick out in different directions.
- 4. Use all of the single blocks to make different three dimensional shapes of 4-8 blocks each.
- 5. Wait five minutes for the glue to dry enough to handle the shapes
- 6. Use the shapes like a three-dimensional puzzle; try to fit them together or balance them. Your sculpture should look different from every side.
- 7. Glue all of the shapes together to make one sculpture, or leave them separate for a puzzle you can play with again.



#### Learn more!

- Video about Wright's life and work (including how he played with wooden blocks as a kid)
  - o https://bit.ly/FLW info
- Khan Academy site with resources for learning more about Frank Lloyd Wright and Falling Water:
  - o https://bit.ly/FLW Khan



#### **Project 2: Japanese Patterns**

Inspiration: The Great Wave Off Kanagawa, Hokusai, ca. 1830, Japan (see color photo on Cover)

#### Introduction:

The Great Wave Off Kanagawa, by Hokusai in 18 is the most famous Japanese woodblock print. It's from a series called *Thirty Six Views of Mt. Fuji*. See how the waves frame the mountain in the background. Today, we are focusing on the repeating lines and pattern in the wave.

Notice the curving shapes at the end of the waves look a little like fingers reaching toward the fishermen. There are a few other repeating shapes like the droplets of water and the thick and thin lines.

Another artist in this genre is Mori Yuzan. His free downloadable sketchbooks of wave drawings and patterns are available online - see link below or on Aurora Public Art's website. Some of his sketches are provided in your kit for you to color.

Let's also take a look at analogous color schemes. This is when you use a few colors that are next to each other on the color wheel. In this case, we could use blue-green, blue, and blue-violet for the waves. But you don't have to stick to blue for water - see the color wheel on the Cover Page and choose any 3 colors that are next to each other.

#### Supplies:

- Coloring sheets (in the packet, or links to printables are available on our website)
- Colored pencils or markers

#### Instructions:

- 1. Examine the color wheel on the cover page.
- 2. Choose 3 colors that are next to each other on the color wheel.
- 3. Use those colors to fill in one of the repeating patterns in this packet.

#### Learn more!:

Free Coloring Pages, Japanese Wave Prints <a href="https://archive.org/details/hamonshuyv3mori/page/n28/mode/2uphttps://archive.org/details/hamonshuyv0mori/page/n27/mode/2uphttps://archive.org/details/hamonshuyv1mori/page/n28/mode/2uphttps://archive.org/details/hamonshuyv1mori

Khan Academy - Great Wave Off Kanagawa <a href="https://bit.ly/khan\_academy\_great\_wave">https://bit.ly/khan\_academy\_great\_wave</a>

A massive Japanese woodblock print database. <a href="https://ukiyo-e.org/">https://ukiyo-e.org/</a>

Great Wave Off Kanagawa image links: https://ukiyo-e.org/image/artelino/44169g1

More Free Coloring Pages from Museums <a href="https://bit.ly/museum\_coloring\_pages">https://bit.ly/museum\_coloring\_pages</a>

#### Project #3 Masks

Demonstration Video: bit.ly/APAC\_mask

Inspiration: Northern Water Spirit, Emmanuel Opoku Asante, Ghana (see color photo on cover)

#### Introduction:

Water is an important part of African folklore. Traditional African religions include water spirits. The mask featured here is an example of a Water Spirit mask, often placed near crops to encourage rainfall. Take a look at the color photograph of the mask on the cover page of the lesson packet. Notice the pattern on the face and the way the lines curve around the eyes and edges of the mask.

We are going to explore the use of repeating patterns as we make our own version of a mask. Remember the pattern and lines from *The Great Wave*? Let's incorporate those as we work. Try to capture the idea of water with your patterns.

#### Supplies:

Cardstock

- Markers or colored pencils
- Glue

- Construction paper
- scissors

Popsicle stick

#### **Instructions:**

- 1. Carefully cut eye holes in your mask. Ask a grown-up for help, if needed.
  - a. First, hold the cardstock in front of your face and use your finger to mark where one eye is. Put the cardstock down, keeping your finger in place, then draw an X on the spot. Use scissors to pierce the page and cut an eye hole.
  - b. Hold the hole in front of your eye, then use your finger to mark where the other eye hole should go. Repeat the marking and cutting process.
  - c. Optional: Add a mouth hole.
- 2. Cut the corners off the cardstock to create a mask shape draw it before cutting.
- 3. Create a pattern that reminds you of water. Repeat that pattern with colored pencils or markers, extending to the edges of the mask. Keep it simple!
- 4. Cut construction paper in half lengthwise. Place the side of the mask on top of the construction paper so that the construction paper extends several inches beyond the edge of the mask. Trace the curve of the mask on the construction paper. Repeat on the other side with the other half of the construction paper.
- 5. Cut fringe along the construction paper, stopping at the line you traced (the uncut part is where you will glue the fringe to the mask).
- Apply glue to the uncut part of the construction paper (just inside the line you traced), then glue the construction paper to the back of the mask. Repeat on the other side.
- 7. Glue the popsicle stick to the back of the chin. Once the glue dries, you can use the stick to hold your mask in front of your face.







#### Learn more!

Ghana water spirit mask image: https://bit.ly/ghana\_mask

British Museum Virtual Tour: <a href="https://bit.ly/british\_museum\_tour">https://bit.ly/british\_museum\_tour</a>

Kirikoku: trailer: https://www.youtube.com/watch?v=-6jw9S5Ym10

#### Project 4: Paper Mache

Video demonstration: bit.ly/APAC\_fish

Inspiration: Arbol de Vida, Soteno Family, Mexico (see color image on cover sheet)

#### Introduction:

The work we're looking at today was made by the Soteno family in Mexico. They are ceramic artisans who work as a group to create sculptures. Their works have become more elaborate and colorful over the generations. They add a lot of found items to their sculptures, which is an art technique known as "Assemblage."

Variety is a design principle that uses different design elements, like all different shapes, colors and textures in one artwork. In assemblage, we add materials to make the sculpture. How elaborate and colorful can we make our sculpture?

#### Supplies:

- Tissue paper
- Glue
- Bowl of Water
- Glitter glue

- Balloons
- Scissors
- Fork

Gem stickers

#### Instructions:

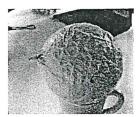
#### Day 1

- 1. Cover your work area. Place a few wet paper towels nearby for wiping your fingers.
- 2. Blow up the balloon about halfway, and tie it off.
- 3. Cut several sheets of tissue paper into pieces about 2"x4".
- 4. Mix 1 tablespoon of water and 3 tablespoons glue in a cereal bowl.
- 5. Wipe a little of this watery glue onto the balloon; place a piece of tissue on this spot and smooth it over so it is a little wet.
- 6. Repeat this process, overlapping the pieces, until you can no longer see the color of the balloon.
- 7. Only use enough glue to make the tissue paper look damp.
- 8. Let it dry. Rest the tissue-covered balloon on top of a cup overnight. Be sure to flip it after a few hours so that all sides get dry.

#### Day 2

- 1. Cut tissue paper into leaf shapes about 3' long.
- 2. Glue 2 or 3 of these leaf shapes to the balloon on each side for fins, the top for a dorsal fin, and the back for a tail.
- 3. Glue on as many decorations as you can find: sequins, pom poms, beads, small toys, whatever you think of.











#### Learn more!

- Virtual tour of museum in Mexico: <a href="https://bit.ly/olmedo\_tour">https://bit.ly/olmedo\_tour</a>
- Soteno Family: <a href="https://en.m.wikipedia.org/wiki/Soteno\_family">https://en.m.wikipedia.org/wiki/Soteno\_family</a>
- National Aquarium Live Feed <a href="https://www.aqua.org/Experience/live#pcr">https://www.aqua.org/Experience/live#pcr</a>



#### Week Three

Join the Aurora Public Library for a Facebook Live program on Friday, July 31<sup>st</sup> at 11:00 a.m. for some art and conversation around author Kwame Alexander and illustrator Kadir Nelson's Caldecott winning and Newbery honor book, *The Undefeated*.

Únase a la Biblioteca Pública de Aurora para un programa de Facebook en vivo el viernes 31 de julio a las 11:00 a.m. para un poco de arte y conversación sobre el autor Kwame Alexander y el libro de honor de Newbery, ganador de Caldecott del ilustrador Kadir Nelson, *The Undefeated*.

#### Questions to reflect on as you read the book:

- How did this book make you feel? Did your feelings change throughout your reading?
- What do you think this poem is about? Why do you think that?
- How can both art and the written word help us bear witness to what happens in our communities/world? For
  example, Kwame Alexander repeats the phrase "This is for the unspeakable" together with Kadir Nelson's
  paintings of lives lost across time.
- The author uses many words that begin with "un". Find all of them. What do these words mean to you? Preguntas para reflexionar al leer el libro:
  - ¿Cómo te hizo sentir este libro? ¿Cambiaron tus sentimientos a lo largo de tu lectura?
  - ¿De qué crees que trata este poema? ¿Por qué piensas eso?
  - ¿Cómo pueden el arte y la palabra escrita ayudarnos a dar testimonio de lo que sucede en nuestras comunidades / mundo? Por ejemplo, Kwame Alexander repite la frase "Esto es para lo indecible" junto con las pinturas de vidas perdidas en el tiempo de Kadir Nelson.
  - El autor utiliza muchas palabras que comienzan con "un". Encuentra todos ellos. ¿Qué significan estas palabras para ti?

#### Other activities:

- 1. Download a free audio version of the poem by visiting hmhbooks.com/freedownloads. Access code is UNDEFEATED
- 2. There are many important people represented through Nelson's artwork. Can you identify who they are and why they are important? See below for a matching exercise.
- 3. With an adult, look for YouTube videos featuring some of the people represented in the book.
- 4. An activist is defined as a person who works to bring about political or social change. Social changes are changes in our interactions and relationships that transform our culture and institutions. How can you be an activist for change in your community or the world?

#### Otras actividades:

- Descargue una versión de audio gratuita del poema visitando hmhbooks.com/freedownloads. El código de acceso es INDEFINIDO
- 2. Hay muchas personas importantes representadas a través de las obras de arte de Nelson. ¿Puedes identificar quiénes son y por qué son importantes? Vea a continuación un ejercicio de emparejamiento.
- 3. Con un adulto, busque videos de YouTube con algunas de las personas representadas en el libro.
- 4. Un activista se define como una persona que trabaja para lograr un cambio político σ social. Los cambios sociales son cambios en nuestras interacciones y relaciones que transforman nuestra cultura e instituciones. ¿Cómo puedes ser un activista por el cambio en tu comunidad o en el mundo?

#### Match the person below with why they are important:

Haga coincidir a la persona a continuación con las razones por las que son importantes:

- 1. Jesse Owens
- 2. Langston Hughes
- 3. Althea Gibson
- 4. Romare Beardon
- 5. Martin Luther King Jr.
- 6. Zora Neal Hurston
- 7. Sheryl Swoops
- 8. John Lewis
- 9. Phyllis Wheatley
- 10. Sarah Vaughn
- a. Poet, novelist, & playwright. A major figure during the 1920's Harlem Renaissance
- b. Writer and anthropologist; famous for the book Their Eyes Were Watching God
- c. Baptist minister and activist who supported non-violent civil disobedience
- d. First player to be signed to the Women's National Basketball Association
- e. Professional tennis player & golfer; first person of color to win a Grand Slam tennis title
- f. Politician and prominent civil rights leader
- g. 1936 Berlin Olympics god medalist
- h. Jazz singer and four-time Grammy Award winner
- i. A collagist (artist) who won the National Medal of Arts in 1987
- j. First published African female poet in America
- a. Poeta, novelista y dramaturgo. Una figura importante durante el Renacimiento de Harlem de 1920
- b. Escritor y antropólogo; famoso por el libro Sus ojos estaban mirando a Dios
- c. Ministro bautista y activista que apoyó la desobediencia civil no violenta
- d. Primer jugador en firmar con la Asociación Nacional de Baloncesto Femenino
- e. Tenista profesional y golfista; primera persona de color en ganar un título de tenis Grand Slam
- f. Político y destacado líder de derechos civiles.
- g. Medallista de dios de los Juegos Olímpicos de Berlín de 1936
- h. Cantante de jazz y cuatro veces ganador del premio Grammy
- i. Un collagista (artista) que ganó la Medalla Nacional de las Artes en 1987
- j. Primera poeta africana publicada en América

#### Week Four







# SciTech's STEAM Kit

#### Sponsored By:

City of Aurora Youth Services & Community's In School of Aurora











# Facebook Livel

Instructional Video with Mr lan Join us on Wednesday, August 5, 2020 @ 11:00/AM

On SetTeon's Facebook Page @SciTechAuroralL https://www.facebook.com/ SciTechAuroralL/

Video instructivo con el Sr. lan-

Únase a nosotros el miercoles 5 de agosto de 2020 @ 11 A.M

En la página de Facebook de SciTech: @SciTechAurorall

https://www.facebook.com/ SciTechAuroralL/



Enter To Win By Entailing Soffeet a Picture of Your Favorite Activity Soffeet will post your protute on Facebook!

guests@sortedimuseum.org

Please include the following: Parent First and Last Name, Email and Ziponde

iliorese para ganarenviando un correo electrónico a Scillech con una imagen de su actividad favorital ¡Scillech publicara tu toto en Facebookl.

quests@scitechmuseum.org

Por favor incluya lo siguiente: Nombre y apellido del padre, correc electrónico y codigo postal



Scriech Hands On Müselmus giving away two Family Memberships and the Winners will be chosen at random and announced in August 2020. All submissions must be received by 8/22/2020

Scriech Hands On Museum está regalándo membresias de dos familias y los ganadores serán elegidos al azar y anúnciados en agosto de 2020: Todas las presentaciones deben recibirse antes del 22/08/2020





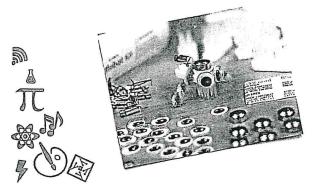
# Bristle Bots

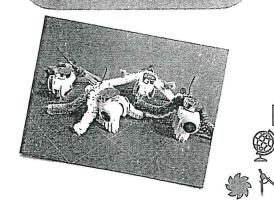
(Construye tu propio Bristle Bot ius amigos en Brown Dog Gadg

Build your very own Bristle Bot from your friends at Brown Dog Gadgets! Follow the step by step directions on the included instruction sheet or, watch the instruction video on the Brown Dog Gadgets website.

Website Link: https:// browndoggedgets.dozuki.com/ Guide/Brisilebot/2 (Construye tu propio Bristle Bot de tus amigos en Brown Dog Gadgets! Siga las instrucciones paso a paso en la hoja de instrucciones incluida o mire el video de instrucciones en el sito web de Brown Dog Gadgets.

Enlace de página web: https:/// browndoggadgets.dozuki.eom/ Guide/Bristlebot/2







# Terrific Tangrams

Wijastis a Tangram?
A Tangrampuzzle (oduses on the objective to rearrange the seven separate places into a complete image of videous shapes throughfour silinotetic only. Conting from Gring, this logic-gaine brings the methamatical through of Asta and interpretates to with pright colors entitingues.
What can you make with these shapes? (Make sure to share you practices by tagging Selfcon Hands On Museum

¿Qué es un tangram?

Un rompe aboxas de l'Angram se enfoca en el objetivo de reorganizar les siete ploxas separatas en una linegen completa de varias formas, sofe en contorno o silueta.

Vintendo de Ofinia, este juego de l'ogleratra el pensamiento matemático de Aslay lo incorpora con colores y figuras brillantes.

billantes XOUG puddes has a reon estas formas? A segurate de compartir fusitotos eliquetando Sel Tech Hands On Museuml



When an object is moving fichas momentum. With this fun toy you and your family can experiment with this fantastic force of physics. First, put the wheel on the wand by resting the small tips on either side on the side of the wheel on to the wand. Then, till the wand back and forth and watch as the wheel spin faster and faster!

Quando un objeto se mueve, tiene impulso. ¡Con este divertido juguete, usted y su familia pueden experimentar con esta familistica fuerza física!

Primero, coloque la rueda sobre la varita ; apoyando las puntas pequeñas a cada lado del lado de la rueda sobre la varita. Luego, incline la varita hacia adelante y hacia atrás yrobserve cómo la rueda gira más y más rápido

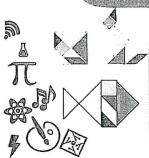


Animals: https://www.tangram-channel.com/tangram-puzzles/animals-easy/

<u>| Letters & Numbers in tips://www.fangram-channels.com/tangram-puzzles/letters-numbers-signs-easy/</u>

Everyday. Trilings: https://www.tangram-channel.com/fangram-puzzles/miscellaneous-easy/

<u>Boats:</u> https://www.tangram-channel.com/tangram-puzzles/boats-easy/







# Geology ROCKS!



In your activity bag we have provided you 3 stones of your own with a stone identification card. Can you figure out what stones you have? Also, while you are exploring The Lizzardo Museum's website make sure to write down & interesting things you learned in your notebook!

There is a museum in Oak Brook, Illinois that has a huge collection of sculptures made from precious stones from all around the world. This museum is called The Lizzadro Museum of Lapidary Art. Lapidary is the art of cutting and polishing stones. Check out the links to learn more about this amazing form of art. Even see Castle Lizzardo made of gold

En su bolsa de actividades le hemos proporcionado 3 piedras proplas con una tarjeta de identificación de piedra ¿Puedes descubrir qué piedras tienes? Además; mientras explora el sitio web del Museo Lizzardo, asegúrese de escribir 5 cosas interesantes que aprendió en su cuaderno.

Hay un museo en Oak Brook, Illinois, que tiene una gran colección de esculturas hechas de piedras preciosas de fodo el mundo. Este museo se llama El Museo Lizzadro de Arte Lapidario. Lapidario es el arte de contar y pulh piedras. Consulte los enlaces para obtener más información sobre esta increible forma de arte, Incluso ye el castillo de Lizzardo hecho de orol.



The Lizzarda Museum of Lapidary Art - https://lizzadromuseum.org

What is banking - https://liszadiomuseum.org/apidary

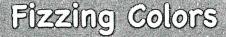
Explore the museum's collection - https://lizzadromuseum.org/collections/

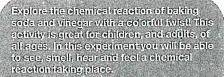
Rack vs. Mineral - https://lizzadramuseum.org/what-are-rocks-what-are-minerals/

How are Rooks, Minerals, and Fossils formed? - https://lizzadromuseum.org/rook-mineral-fossils/

Cashis taxxardo - https://lixxadromuseumorg/additediszadro/







- 1. In your three small sections of your tray put 1-2 drops of food coloring. One color per section (red, yellow and, blue).
- 2. Pour the vinegarinto the sections.
- 3. Scoop 4-5 tablespoons of baking soda into the large section of the tray.
- 4. Use your pipette to transfer the vinegar on to the pile of baking soda.
- 5. Try using the different colors to create new colors!

Extension: Try holding the baking soda in your hand and feel the reaction!

Explore la reacción química del bicarbonato de sodio y el vinagre con un toque colorido! Esteracióned es ideal para ninos y adultos de todas las edades. En este experimento podrásiver, oler, escuchar y sentir una reacción química.

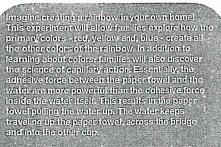
- Fin las tres secciones pequeñas de sú bandeja, poriga 1-2 gotas de colorante para alimentos. Un color por sección (rojo, amarillo y azul).
- 2. Viente el vinagre en las secciones.
- 3. Coloque 4-5 cucharadas de bicarbonato de sodio en la sección grande de la bandeja.
- 4. Use su pipeta para transferir el vinagre a la pila de bicarbonato de sodio.
- Intenta usar los diferentes colores para grear nuevos colores!
- Extension: (Intenta sostener el bicarbonato de sodio en la mano y siente la reacción)







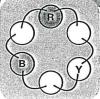
# Wicking Rainbow

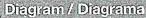


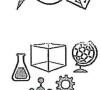
- 1. Set up oups in a circle
- 2. Put 2 or 3 drops of food coloring in to the cups
- 3. Pour water into all the oups about Woof the Way
- 4. Rip the 2 paper towels into thirds. Then twist paper towel pieces and place into cups according
- 5. Hypothesize what will happen and record your hypothesis in your note book.
- 6: Observe what happens over the next 10 15 min. Write your observations in your note book.

ilmagina crear un arcolits en tupropia casalifiste experimento permitirá a las familias explorar como los colores primarios (rojo, amarillo y azul) crean todos los demás colores del arcoliris. Además de aprender sobre los colores, las familias también descubrirán la clancia de la acción capilar. Esencialmente, la fuerza adhesiva entre la toalla de papet y el aqua es más poderosa que la fuerza cohesiva dentro del agua misma. Esto hace que la toalla de papet suba el agua. El agua sigue subiendo por la toalla de papet, cruzando el puente y hacia la otra taza.

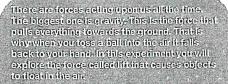
- t. Coloque tazas en un efreulo.
- 2. Ponga 2 o 3 gotas de colorante alimentario en las tazas según el diagrama.
- 5. Vierta aguexen todas las tazas aproximada inente 1/8 de l'eamino
- 4. Rasgue las 2 toallas de papel en terclos. Euego tuerzal os trozos de toallas de papel y colóque los en tazas según el diagrama.
- 5. Haga una hipótesis de lo que sucede é y registre su hipótesis en su ouaderno.
- 6. Observe la que sucede en los próximos 10 a 15 min. Escribe las observaciones en la cuademo.







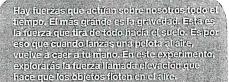
# Fantastic Forces



- 1. Put your Bemoulli Pipe toy together by attending the white backet to your colorful
- 2. Place the write ball in the basket
- 3. Put the open end of the pipe in your mouth
- 4. Record your observations in your notebook!

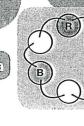
What happened?

When you blewrite air through the pipe it pushed the ball into the air. The air moved very fast around the ball and caused less pressure above the ball and more pressure under the ball allowing the ball to deat



- t. Arme su juguete Bernoulli Pipe uniendo la canasta blanca a su colorida tubería.
- 2. Coloque la bola blanca en la canada.
- 3. Coloque el extremo ablerto de la tuberra en su boca y sople.
- 4. ¡Registre sus observaciones en su quaderno!

Cuando soplo el alre a través de la tubería, empujó la pelota hacia el alre. El alre se movió muy rápido alrededor de la pelota y causó menos presión sobre la pelota y más presión debajo de la pelota permitiendo que la pelota





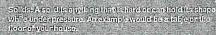








There are three basic-sales of matter solid, liquid, and gas-In this experiment/you will like all three to blow up a balloon.



Equite-Aliquid smatter trattets the shape of the container that fulls in. An example of this would be water or jules.

Gas: A gas is the invisible state of matter. Gas is alteround us. The allowe breath is a gas.

f. Using your measuring out, pour about 1/4 out of vinegar litte line plastic bottle.

2 Withyour measuring spoop, second mates non-this of taking sous out of the local fractions of the local fractions

 With the balking gods in the targe part of the balloon, stratch the mouth of the balloon over the mouth of the plastic bottle. Be careful not to pour the balking so dainted the vineger yell.

4-linyour-notebook, write down your hypolitics is of what your hink will fragige a when the baking sode (solid) and unegar (liquid) mixe

6. Efficip the top of the balloon and allow the baking sods to fall into the bottle with the vinegar Make sure to get as much of the baking sodsmite the bottle for the best results.

6. Write your observations in your notebook

Extension: Try different amounts of vinegar and baking sode to see in that has an effect.

Hay très estados has locade la materia, solidox l'autido y essesso, del esta experimento usarés los très para vola dura albei.

Sálidos-Un sálido es todo fo que es duro e puede mantener su forma intentivas está bajo presión. Un ejemplo seriasuna intesa o el plso do sucasa.

Biguidos Unliquido es metarisque loma la forma del recipiente en obcius se encuentra. Un ejemblo de esto-seria aguaso luso.

Cas: un gas as el estado invisible de la mateira. El gas nos rades. El arro que respirantes es un gas.

1. Usando sunaza meditora, vierta aproximadamente 1/4 laza de vinagre enla potella de plástico.

2. Son streughmadoslifeddoro sique haughardd (flus) de bleathonafe de sodis golfaraille. Luego vierfa authebeamante ebbearbonafode sodro en elejlobo. Es posible que naceste un adulto e un ayudante pará que fo ayude.

 Gón autocamonatores socio enfanosymmetre del ciotao estre la noca deligión a social a toca de la troclicada plastica. Transportidado de no verter el hicarbonato de socio en el vinagracio tabila.

4. En su duademó, escriba su lipólosis de lo que erre que su acterá crando se mezclán el bicarboráto de soble (sólidó) y el vinagre (líquido).

5: Levante la parte superior delegioto y primità que el blearbonato de sodo celegio in la botella com o vinaggio. Assguresa que obtener la insporeanintació de lesa bonato de sodo en la potener la para obtener los mojores resultados.

5. <sub>(</sub>ដែនអូវវា្រវប្រទេស)វុទ្ធមួលដម្លើបក្រុងទូវទាក់ប្រា**ម្**ដេស(ទេកស៊ី)

Extensión a Proobe officientes cantidades de vinagre y Disatognato de aculo paraversi eso tiene algún efect



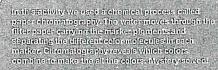




# Colorful Chemistry







With paper dinomatography the water earlies different color indequies at different speeds depending on the size of the molecule and how attracted the molecule is to the paper For example, pigments in the secondary color a range (made from a containation displants) colors) expansies out to show a range of yellows and tests.

i. Take one collectiliter and place a few small spots of color near the center using a marker. We suggest using green, purple, orange, or black.

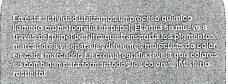
2. Fill one of your measuring cups with water and place your colored coffee filter on the plastic tray.

3. With your pipette, put 2-3 small drops of water on each spot of color.

4. Wait 2-8 minurals and observe the reaction the waterhas on the colors. What colors do you see?

5. Let your office filter day. Then you can hang it up with your other artwork

Extension: Try using only black on the coffee filter and observe what colors yoursed.



eonificaromatografia anpapel, elaguarizansporta diferentes moléculas de color a diferentes velocidades dependiendo confermatio de la molécula y de Je atratia por alpasel. Por elemble, despigimentos en elector sociarda formación (los hogismontos en elector sociarda formación) (los hogismontos en elector sociarda formación) (los hogismontos en elector sociarda formación) (los hogismontos en electors) primados) se asparable acinostral·lins game de amanillos vivolos.

Tome untilltrode eafely coloque algunas pequeñas manohas de color cerea del centro con un marcador Sugeritiros usar verde, morado, naranta o neglo.

2. Elene una de sus tazas de medir con agua y coloque su filtro de caré de color en la bandeja de plastico.

6. Con su pipala, coloque 2-3 golas pequeñas de agua en cada punto de color

4. Espere 2-4 minutos y observe la reacción que el agua tiene sobrellos colores, ¿Qué colores vas?

วิ. Deje que su illiro de călă se segue. ¡Entonces puedes colganic com u cira obra de artel

Extension-pritante usar-solo negro en el fillitorife esté y observe que colores vel







#### Week Five

Join the Aurora Public Library for a Facebook Live program on Friday, August 14<sup>th</sup> at 11:00 a.m. and we will share more about these kits!

¡Únase a la Biblioteca Pública de Aurora para un programa de Facebook Live el viernes 14 de agosto a las 11:00 a.m. y compartiremos más sobre estos kits!

#### Try some of these journaling prompts:

Write a story about a magical button

What is your favorite video game?

Where would you most like to visit?

Write about a time when you were mad

Write a story using the first sentence "Yesterday, I found my favorite..."

Pruebe algunos de estos mensajes de diario:

Escribe una historia sobre un botón mágico

¿Cual es tu video juego favorito?

¿Dónde te gustaría más visitar?

Escribe sobre un momento en que estabas enojado

Escribe una historia usando la primera oración "Ayer, encontré mi favorito ..."

# You can also use a journal as a place to create art! Try the following prompts and challenge yourself to draw each of the following:

A chicken crossing the road

The first day of school

Your favorite memory

Ice cream

An imaginary friend

The library

¡También puedes usar un diario como lugar para crear arte! Pruebe las siguientes indicaciones y desafíese a dibujar cada uno de los siguientes:

Un pollo cruzando la calle.

el primer día de escuela

Tu recuerdo favorito

Helado

Un amigo imaginario

La biblioteca

#### Check out one of these books to inspire you on our journaling journey:

Mira uno de estos libros para inspirarte en nuestro viaje de diario:

Dear Dumb Diary by Jim Benton

Diary of a Wimpy Kid by Jeff Kinney

Dork Diaries by Rachel Renee Russell

Ellie McDoodle Diaries by Ruth McNally Barshaw

Frazzled series by Booki Vivat

Justin Case by Rachel Vail

My Life as a Youtuber (and other titles) by Janet Tashjian

Owl Diaries by Rebecca Elliott

#### **Journaling Word Search**

Ode Art Story Literary Ballad Pen Rhyme Write Haiku Page Journal

Ε	1	Т	K	Α	В	Α	L	L	Α	D	Ε	N	1
N	D	Α	R	1	Α	L	W	L	Ε	Р	0	-	R
D	Ε	0	L	Α	Α	Т	M	U	Ε	K	V	Z	D
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Α	Ε	R	L	Ε	D	U	D	Υ	Н	Н	L	Α	ט
Р	G	N	R	J	0	U	R	N	Α	L	Т	Α	R

### Búsqueda de palabras en el diario

Oda Arte Historia Literario Balada Bolígrafo Rima Escribir Haiku Página Diario

1	1	G	F	N	G	I	Α	Т	L	Α	N	Α	R
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Е	0	R	Α	С	Α	R	0	L	0	Α	R	R	R
Α	0	Α	1	R	0	Т	S	1	Н	0	Α	Т	1
N	В	F	1	0	1	R	Α	R	Ε	Т	1	L	E
Α	0	N	Α	ı	R	Α	Т	R	Ε	1	Α	Н	S
R	L	В	G	S	Α	D	Α	L	Α	В	Α	Α	С
K	1	ı	D	U	R	Α	D	В	R	N	D	I	R
R	G	Α	Α	G	S	С	В	С	1	Α	0	K	1
F	R	0	R	1	R	1	R	G	Α	R	1	U	В
В	Α	Α	Н	L	Α	Е	Α	Н	R	T	R	Т	ı
R	F	Α	В	R	Α	Р	1	1	0	E	Α	R	R
D	0	N	D	L	D	1	М	0	K	Α	1	Α	L
Α	В	Ε	ı	1	E	Α	Т	L	Н	I	D	K	1