

ENGINEERING EXPO

VOLUME 2
ISSUE 1

MAY 2019

SAVE THE DATE FOR EXPO: MARCH 28TH 2020!

Time: Back to the basics with a Sun Dial

Place a pencil or stick into a ball of clay so that it will stand. Place that marker out in the sun, maybe in the driveway. Every hour mark where the shadow of the pencil is pointing. The next day the kids can tell what time it is by looking at where the shadow of the pencil is by referencing the markers.



Review of Expo

Hello Everyone! Engineering Expo 2019 has come and gone, and all we can say is WOW! We have had quite the successful year. This year brought a lot of new things like new booths that let you fly drones or make your very own button. New friends like Engie our new Engineering Expo Robot, and even a ton of new attendees! We had 3,832 people come and enjoy this year's Engineering Expo. That is almost 950 more people than last year. We wanted to make sure and send a HUGE THANK YOU to everyone. We could



not have done it without our wonderful sponsors, volunteers, and attendees. You have not only made a difference to Engineering Expo, but also to your city, your commu-

nity, and to all of our young engineers. Thank you for helping us inspire the next generation to dream, be curious, and create.

Your Engineering Expo Co- Chairs
Sarah Niles & Jess Stitt
And all your friends on the Expo Planning Committee

Didn't make it? See what you missed

Where's Shane, with KWCH12, headed to our Engineering Expo headquarters to practice a few activities featured at Engineering Expo 2019. Shane built a foam arch, watched some elephant toothpaste grow, and made a lava lamp. There are four videos on the page that you can see to what you missed. You can catch up at their website [here](#).



We have posted several photos and a video from Engineering Expo 2019 on our FB page. You can check them out [here](#).

If you have pictures please send them to us! You can

email us at:

ExpoNewsletter@wichitaswe.org

Lastly, don't fret! You can still attend next year's Expo March 28, 2020. You can keep up with the event by liking to our Facebook event [here](#).

Expo Interviews: What Are They

Saying?

Expo Newsletter had the opportunity to interview a few kids who attended Expo on March 30, 2019. Ron is in pre-K and Sam is in 1st grade.

*Names have been changed to protect privacy.

Q. What were some of the coolest activities that you saw or did at Expo?

R: "My favorite was the trebuchet."

S: "I liked flying the

drones."

R: "I loved everything!"

Q. Did you know what Expo was going to be like before you got there? What did you expect it to be like?

S: "I thought it would be a lot of fun."

R: "I thought it would have a huge place of lots of people and science."

Q. Are there any activities that you saw or did at Expo that you would like to try at home or

school?

S: "Flying drones!"

To which mom replied "They aren't going to let you skip school to fly drones."

Q. What do you want to be when you grow up?

R: "I want to be a guy who flies drones."

S: "A police officer."

For more Q & A visit the [Website!](#)



"My friend liked the create station where you tried to make the car move without touching it."

-Lily

Tie Dye Flowers

This one is a classic. You will need:

A few white flowers (daisies)

Food coloring

A knife or scissors

Tall glasses

Talk to your kids about how flowers and plants "drink" water through the roots, up the stem, and into the flower petals. During this experiment you will be able to see just that.

In 2 glasses mix together water and a few drops of food coloring. Have each glass be a different color from the other.

Slice each daisy stem into two parts long ways down the stem.

Place half of the stem of one daisy into one glass. Place the other half the stem into a different glass that is a different color. Repeat for each daisy that you have.

Over a few days you will be able to see the flowers "drink" the water and the petals will change colors.

For more you can visit [here](#).

You can also use this experiment to teach your kids compassion for the plants around us. It is easy to pull apart leaves and bark off trees when bored and you don't see the effects immediately. However, constant degradation of stems, trunks, leaves, etc. can really harm the plants we have around the home, playground, or park.





Do you have leftover eggs from Easter? Try this experiment:

This experiment can be found at [Amy Poehler's Smart Girls](#) or click [here](#).

What you need:

- eggs
- egg carton or mini muffin tin
- Spoon and saucepan

- measuring cup
- food coloring
- Elmer's glue
- Epsom salts

1. Crack the egg shells in half so that they are like mini cups. Rinse them in water.
2. Peel the membrane out of the shell.
3. Brush a thin coat of glue to the inside of

the shells.

4. Sprinkle some Epsom salt on the glue then let dry. Set aside in the egg carton.
5. Mix 1 cup of warm water with 1/2c of Epsom salt until all the salt is dissolved.
6. Pour the Epsom salt liquid into the salted egg shells and add food coloring if desired. Let sit for a few days until the liquid has gone and you have crystals eggs!

Hand Tossed Ice-Cream

Supplies:

- 1 C. whole milk
- 1/4 C. granulated Sugar
- 1/2 TB vanilla extract
- 10 C. Ice
- 8 TB rock salt
- Sandwich baggies
- Gallon size baggies

Instructions

Step 1

Put milk, sugar, and vanilla into a sandwich baggie. Make sure the sugar dissolves before you proceed.

Step 2

Zip lock the baggie closed and place it into another sandwich baggie. You want to use the second baggie because if salt water gets into the ice-cream mixture it will taste horrible!

Step 3

Add your ice-cream baggies to a gallon size baggie and fill it with the salt and ice. You will then want to toss and play with the bag and agitate the salt and ice. This is what will freeze your ice cream!

Step 4

Once the ice-cream has frozen, open up and eat your treat! You can add

extra toppings if you would like!

This experiment can be found at [here](#).



STEM Events Around Wichita

Lake Afton Observatory

Friday and Saturday nights are an excellent evenings to head out to the Lake Afton observatory and learn about the stars around us. For more info [Click Here](#)

Take Flight: Butterfly, Bird & Bee Festival

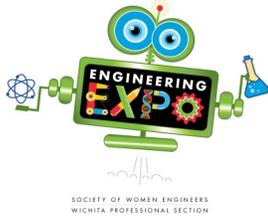
May 25th visit Botanica to see the opening of their Butterfly house



from 10 am –2pm. Find out more [Click Here](#)

The Science of Ripley's Believe it or Not

Sat May 18 at 10 am see where magic and science mix at Exploration Place. [Click Here](#)



We want to hear from you! Give us your thoughts on Expo or submit your favorite science podcast, youtube channel, Instagram, etc so we can follow it too! Send us an email at:

ExpoNewsletter@wichitaswe.org

2020 Vision

We have some exciting new things coming soon from the Engineering Expo team. Keep up with what is going on by visiting our website and following our social media.

www.wichitaengineeringexpo.org

Our Other Social Media to follow:
Follow the event on Facebook: [Here](#)
Follow SWE on Facebook at [Here](#)
Follow us on Instagram [Here](#)

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SAMPE–Wichita Section

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