

# ENGINEERING EXPO

## MARCH 2024 NEWSLETTER



Are you looking for a fun family event that your kids will love? Look no further than Engineering Expo! We will have drones, hovercrafts, slime, lava lamps and over 40 other activities designed for kids from kindergarten to 8th grade, Engineering Expo is the perfect way to ignite your child's imagination and inspire them to explore the exciting world of science, technology, engineering, and math (STEM).

As the flagship event for the Society of Women Engineers (SWE) Engineering Expo has been providing kids with hands-on experiences in STEM-related concepts since 1998. We believe that learning about STEM is not only important but also super fun! Our goal is to show kids how STEM can help them understand the world around them and discover all the amazing things they can create. Plus, the best part is that Engineering Expo is completely **FREE!** So, why not come and join us for a day full of learning and fun?



**Get excited for Expo 2024!**

Date: Sat. April 6th  
Time: 9:00AM- 3:00PM  
Where: Century II, Expo Hall

- Activities Include:**
- Balancing Butterflies
  - Button Making
  - Drones
  - Hovercrafts
  - Lava Lamps
  - Slime
  - Spaghetti & Marshmallow Structures
  - Stick Bombs
  - String Telephones
  - Tin Foil Boats
  - Water Bead Stress Balls
  - Wind Tunnel
  - AND MORE!!!



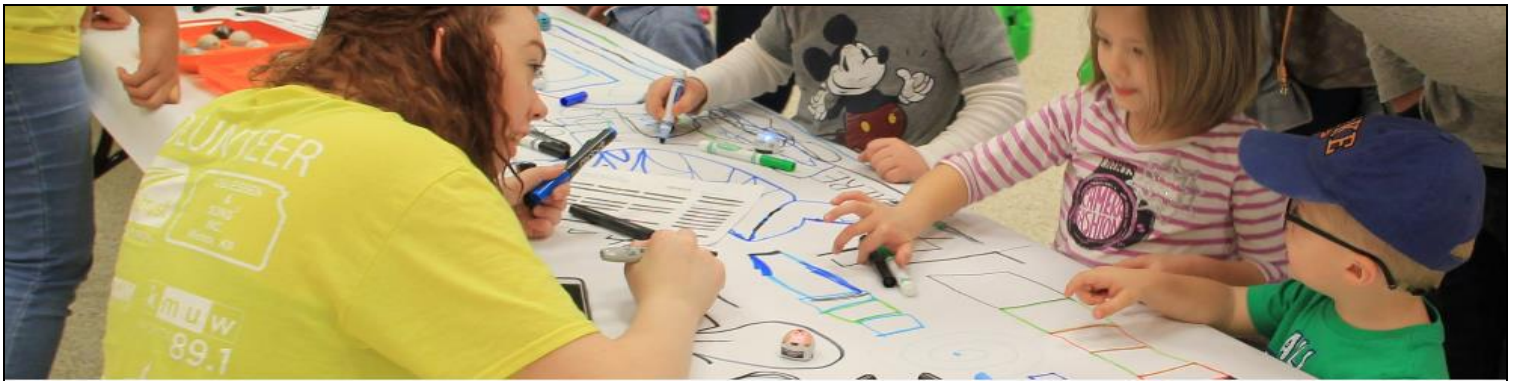
Follow our social media accounts for the latest news!  
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Use hashtag **#SWEexpo2024** for a chance to be featured in our newsletter!



## What have attendees said about Engineering Expo?

*"Number one it is free! Second, they had lots of science and info for my kids to learn hands on. Last although it was busy it was worth the wait".*

*"My girls really enjoyed it. My 9 year old was reluctant to go but after doing some activities she was glad she went. Plus we love STEM and anything that gets my kids excited about it is awesome".*

*"I recommend every year. Many fun and engaging activities for all ages".*

*"This is the 4th year we have been bringing our kids. The event keeps getting better with great activities and booths".*

*"All the displays were educational and there was enough variety that all ages could learn something".*





Add a little color to your day with an easy DIY craft! You can create this simple experiment with ingredients you may already have at home. By layering liquids according to density (heaviest liquids on the bottom and lighter liquids on the top), the colors will layer and create your very own rainbow in a jar! This activity is recommended for ages 3+.

**Supplies:**

- Tall glass or jar
- Food coloring (red, green and purple)
- Honey
- Blue dish soap (non-toxic)
- Water
- Olive oil or vegetable oil
- GROWN-UP STEP: Rubbing alcohol or baby oil.

**Instructions:**

Parents, your little ones can help you stir and pour to make the rainbow, but always use caution and make sure your child knows not to ingest the ingredients!

1. Mix honey and purple food coloring. Add to the bottom of the jar.
2. Add blue dish soap to jar.
3. Mix water and green food coloring. Add to the jar – but pour carefully!
4. Add olive oil or vegetable oil.
5. GROWN-UP STEP: Mix rubbing alcohol or baby oil with red food coloring. Add to the top of the jar to complete your rainbow!

## CODED MESSAGE CLUES

**Easter EGG Hunt - Coded Messages**

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**SCIENCE SPARKS**

## EGG PARACHUTE

**You'll need**

- Bin bag/plastic sheet/paper or other flat material.
- 4 pieces of string
- sellotape or masking tape
- 2 eggs (boiled or chocolate)



**Instructions**

- Lay the bin bag out flat and cut out a large square.
- Make a hole in each corner, thread a piece of string through the hole and tie a knot.
- Tie all 4 pieces of string together and sellotape the egg to the bottom

**Extension Ideas**

- Create a basket for the egg to sit in.
- Experiment with different materials for the parachute.
- Try dropping the parachute from different heights.

A egg dropped without anything to slow it down will fall fast and smash. The parachute adds air resistance which slows the fall of the egg, hopefully stopping it from breaking as it hits the ground.



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