

JOIN MSU ENGINEERS

As they host a day of science and engineering activities. Participants will be involved in hands-on experiments and take home the projects.

May 20th, 10am to 1pm

Lunch provided

Laurel Middle School Commons

Open to the public

Workshops:

- Make clouds 
- Construct lightweight bridge 
- Lava Lamps 
- Energy light meter 
- Design the best wind turbine 

Sign up here



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https://montana.qualtrics.com/jfe/form/SV_7UnA53ngeTwnwLE

Make Clouds

Are you curious about the formation of clouds? In this activity, you will make your own cloud using a bottle.

Construct Lightweight Bridge

In this activity, students will design and construct a bridge in small groups out of common items like popsicle sticks, glue, and tape. Building a bridge that can support the highest weight while being as light as feasible is the goal.

Lava Lamps

The fundamental science aspects behind the lava lamp will be explained. Students will be able to learn the two main scientific principles involved in the lava lamp which are density and polarity and how these principles are being used every day in Engineering applications.

Energy Light Meter

Using a micro: bit (small computer) and computer coding, create a sensor to detect how much energy is coming from the sun or other light source. Learn about what might influence the amount of energy absorbed. Potential to take home micro: bit and use for Robotics Project.

Design the Best Wind Turbine

Wind energy is becoming more and more popular across the United States, maybe you have even seen a wind farm close to where you live! In 2015, approximately 7% of the electricity used in the U.S. was generated by wind, so who knows, when you switch on a light bulb in your house, that light might be coming from wind energy! Wind energy is generated by **wind turbines**. These machines can look like giant pinwheels, and their job is to turn energy from the wind into mechanical or electrical energy. Believe it or not, the wind turbines we use today are based on designs that are over 4,000 years old! In this activity we will be exploring different turbine designs by testing pinwheels, and learning about the factors that can improve their performance.