

Organization:	STEM activity:
Iowa State University Extension and Outreach - Dubuque County	We will bring our Wonder Robots and showcase a variety of activities with Dash and Dot.
National Mississippi River Museum & Aquarium	We will have live animals for kids to see and touch.
Great Midwestern Educational Theatre Co	Math games using Popsicle sticks, monster faces, dice, etc. Prizes include pencils and stickers Sign up to win a t-shirt or gift certificate/
Keystone Area Education Agency	A wide variety of robots from the Keystone AEA collection will be available for use by participants. They will drive the robots and learn about programming via free apps that anyone can use. There are robots for every age group from preschool to high school including Code-a-pillar, EVO, flying CargoBot, Jumping Racer, Ollie, Meccanoid, and more.
Keystone AEA	Explore the PancakeBot - the world's first food printer capable of printing pancakes with tasty results! The free Pancake design software will be shared so that participants can create their own designs. Students can try the software and watch PancakeBot in action. Also check out Keystone's OSMO kits + iPads. Osmo is an award-winning learning system that will change the way your child interacts with the iPad by opening it up to hands-on play. Exciting and fun for all grades and age levels!
Keystone AEA	Visitors will see the 3D printer at work creating small items designed by students in our NE Iowa schools. They will get hands-on experience creating an object using the free online software Tinkercad.
Dubuque Area SWE	We will show the kids how to build a car that is completely powered by air! It is made of out a balloon, coffee stirrer, straw, cardboard, and tape. It is not hard to make and the kids can test is out to see how far it goes.
National Advanced Driving Simulator	Students will interact with our portable driving simulator. They will receive a text during their drive and will be able to see the devastating effects of distracted driving on the simulator rather than on the road. Exhibitors will explain science behind distraction, technology used in simulation, and safety tips.
University of Dubuque Aviation Department	Flight Simulator

UD nursing department	The nursing students will have the participants make beaded UV bracelets. There will be education on sun safety and what occupations deal with adverse effects from sun exposure.
Girl Scouts Of Eastern Iowa and Western Illinois	We will be making a structure out of gum balls and toothpicks. They try to make it strong enough to hold a full can of pop.
St. Ambrose University Engineering	Kids will make a robotic hand out of simple materials-cardboard, string, straws and rubberbands. Volunteers will discuss engineering concepts related to the activity.
Keystone AEA	Regularly scheduled planetarium shows for kids and adults to participate in. Different astronomy topics will be discussed along with current events. Questions encouraged!
Loras College Chemistry and Biochemistry Program	We will have 2-3 mini-activities. 1-acidity of common foods, drinks and candies measured with cabbage juice indicator. 2- Marker chromatography 3- invisible ink (phenolphthalein and ammonia spray)
Green Iowa AmeriCorps	Our focus will be on hydropower. On one side of the table we will have the hydropower stuff such as a fact sheet, hydropower turbine, make your own hydropower. On the rest of the table we will have energy activities such as coloring pages, energy match-up, and a sheet on alternative energy facts. We will also have activities to showcase wind and solar power.
FIRST Robotics Team 171	We will be demonstrating our 2017 robot. Most likely statically, however if we have space we can demonstrate some of the operations. We may also have a custom built 3D printer printing parts for children to take home.
DMASWA	This will be a sort activity to teach participants how to properly dispose of materials. Options will include recycling, composting, reuse and a very small container for waste. Exact details to be worked out yet.
Loras College Math Program	We will help kids create origami cubes, frogs, and other creations, using paper that we will provide. We will also have basic strategy games for kids to play with us. We will help them use math to analyze their strategies.
Carnegie-Stout Public Library	We will set up a variety of hands on activities that we have previously featured in our Creative Kids After-School Maker program. The activities are not yet set in stone, but will include Ozobots,

	<p>pom-pom catapults, and other simple experiments. I will be there to facilitate the activities, as well as give out information about the library's Creative Kids program, as well as our new Maker Space.</p>
Loras College Engineering	<p>Robots : small shoebox size robots that will avoid obstetrical</p> <p>Magnetic levitation : Ring magnets on a stand</p> <p>Air levitation : Fan blowing up, holding a balloon in the airstream</p>
Dubuque Police Department	<p>A Dubuque Police Department patrol vehicle will be on display along with a department K9</p>
Kendall Hunt Publishing/Victory VR	<p>We will have a few laptops set up for the kids to experience virtual reality through the Oculus goggles. One activity takes them to a marsh and the other activity will let them explore the solar system</p>
Dubuque County Consevation	<p>Families are invited to experience the STEM Festival Geocache! Use a GPS unit to hunt down the cache somewhere on the Loras grounds. Inside the cache is a secret message, relay that message to one of naturalists and receive a prize for completing the task!</p>
University of Dubuque - Math Education	<p>Kids will be clallenged to make squares with a different number of with Tangram pieces.</p>
Dubuque County Farm Bureau Ag in the Classroom	<p>Our program is entitled Mighty Soybeans Students will observe the power of seeds by germinating soybeans in plaster of Paris.</p> <p>Materials:</p> <ul style="list-style-type: none"> 3 soybeans 1, 3 oz. plastic cup 2 Tablespoons plaster of Paris Water Plastic spoon or popsicle stick for stirring
University of Dubuque- Education	<p>Robotics programming and challenge course</p>
Alliant Energy	<p>We will be conducting basic electronic experiments through the use of playdough. Children will learn about conductors, insulators and circuits. In addition, children will have the opportunity to build their own wind turbine.</p>
Mines of Spain State Recreation Area, Iowa Department of Natural Resources	<p>We will do: Live animal (native turtle) to talk about the animals that depend on water to live.</p> <p>Kids will do: Investigate soil erosion by playing with the water table.</p> <p>Materials used: Soil erosion table; water to recycle through the table; electricity to run the table;</p>

Northeast Iowa Community College - Nursing	Calculate math to apply to medication administration. Will have participants draw up colored water into non-needle syringes after figuring out correct dose. May also apply to tablets to give in a med cup. Will have/show amount of sugar in different drinks (ie mountain dew, orange juice).
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