

<u>Organization:</u>	<u>STEM activity:</u>
<u>Postville School (Jr, High Science)</u>	Children may request an image of a space object on the YouthAstroNet website. We will be able to send them the photos when they are available. We will have a display of the projects that students have completed with YouthAstroNet. We will be using computers to access the website.
<u>ArtHaus</u>	ArtHaus will be doing a hands on code game with students using the computer, a handmade board and art supplies.
<u>Northeast Iowa Regional STEM Hub</u>	Flight Simulator
<u>Northeast Iowa Community College</u>	TBD
<u>Luther College Visual and Performing Arts</u>	Children and adults may move in any way they want in front of the Kinect camera box. Their movements will be translated into drawings and pixel images projected onto a screen. They can view the movement drawings while they are moving. Materials include a designated space with a screen for projection and a Kinect machine on a pillar.
<u>Keystone Area Education Agency</u>	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.
<u>National Advanced Driving Simulator (NADS)</u>	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.
<u>Girl Scouts of Eastern Iowa and Western Illinois</u>	We will build a structure with gum drops and toothpicks that is strong enough to hold a full can of pop.
<u>Winneshiek County Conservation</u>	We will be examining how fish bodies are adapted to help them survive. Students will use photos, replicas, and games to see how different fish are adapted to better hunt, swim, and hide, and to notice the different body parts scientists use to classify fish. Kids will also have the chance

	to use a rubber fish replica and paint to create a fish "print" on muslin to keep. If we can, we'll bring some live fish along so we can see real-life examples of the adaptations.
<u>Green Iowa Americorps</u>	Part of Green Iowa Americorps' service is providing free home energy assessments and weatherization to increase home energy efficiency. In this activity, kids will be simulating a weatherization by using a variety of materials (playdough, tape, Styrofoam, construction paper, etc.) to seal up a miniature house (plastic coffee can). Using a blow-dryer, the students will test out the house to see if how well it is holding in heat and to determine if it would be an energy efficient house.
<u>Luther College</u>	There will be demonstrations of wearable technology and 3D printing. We will be using a filament 3D printer and kids can pick up and play with 3D printed objects. We will also have wearable microprocessors with LED lights that kids can make light up.
<u>Luther College Campus Chapter of the National Science Teachers</u>	We can cover two tables. Pre-service science teachers will use materials from CEEE at UNI to allow participants to build and test small solar cars (using flash lights). At the other table participants can test different types of turbine blades with a voltmeter to discover which blade design creates the most electricity.
<u>Great Midwestern Educational Theatre Co.</u>	Math games using Popsicle sticks, monster faces, dice. Prizes include pencils and stickers. Sign up to win a t-shirt or gift certificate.
<u>STEM at the University of Northern Iowa</u>	Find out about climate science and then create your own Lorax Mask.
<u>Iowa Public Radio</u>	Kids are naturally interested in their own bodies. At IPTV's "Discovering Senses" booth, students will be asked to smell 8 containers and to shake 8 containers and guess which is which. Example smells are banana and cinnamon, and the sounds are coins, and noodles. The students will then learn about the platypus and its special "sixth sense" of electroreception by watching a short clip from the program "Wild Kratts."
<u>Northeast Iowa Community College</u>	Explains the uses and function of electricity and solar electricity, and examples on display. Students will put together small Circuits and solar module strings.

<u>Keystone Area Education Agency</u>	Explore the PancakeBot - the worldÂ’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!
ISU Extension & Outreach 4-H	TBD
Keystone AEA	Planetarium