

## Extension

**COLLEGE OF AGRICULTURAL, CONSUMER  
& ENVIRONMENTAL SCIENCES**

# June 2019 STEM Activities

Unit staff were invited to provide sessions for a STEM (science, technology, engineering, and mathematics) camp for middle school students in Roodhouse. Sessions from unit staff were:

### **Natural Resources, Habitat/Ecosystems**

(Michelle Berg-Vogel)

Students did an activity called "Habitat Sort" where types of habitats were discussed. Animals were sorted into the habitats they belong in. In the "Food Web Tangle", students gained an understanding of the connections between plants and animals in the food chain and how changes in the environment can affect resources



### **Inventions (Jennifer Russell)**

Participants talked about how most inventions solve a problem, and shared different inventions and what problems those inventions solved.

At the end of the class students were encouraged to think of a problem in their home or school that they wanted to solve and create a picture of that "invention." Students shared both their invention ideas and what problems they wanted to solve.

### **Lego Mindstorm (April Littig & Tanya Hetelle)**

Participants used Lego Mindstorm EV3 Robots to construct a SUMBOT. Members challenged each other in a head to head contest to see who could shove or flip over the other contestant's robot.

### **Smart grid/electricity (Duane Friend)**

Participants learned about how electricity is generated and then sent to homes and businesses. A hands on activity had students develop an electrical grid. In addition, smart grid technology was discussed, and students developed a smart grid system to pinpoint where outages were occurring.