



4-H is Thriving with Science Technology Engineering and Math (STEM)

April 2022

Youth are igniting their **sparks** through 4-H STEM and Agronomy related project areas

4-H STEM Opportunities - Robotics

The Minnesota 4-H Youth Development programs provide youth with the opportunity to explore the world of robotics. The Southwest Region has been a leader in Lego Robotics, Aquatic Robotics and now Edison robots. These smaller and more affordable robots have made providing robotic opportunities available to more participants. 4-H staff in the SW region have utilized these robots in afterschool settings and day camps. Youth are able to experience coding while building and operating these robotic units. These experiences "**Spark**" the interest in participants into learning more about robotics and programming.



4-H STEM Opportunities - Engineering and Design Event

Minnesota 4-H offers opportunities for youth to "**Spark**" their interest in problem solving with the 4-H Engineering and Design event. Participants work in teams and use everyday objects to solve a two step problem. This year's theme is "*Shine Your Light! Saving Energy Through Engineering.*" The two step task is to "**Turn a light on and off.**" There are two levels teams can compete in: Level 1 (3rd-8th grade) and Level 2 (9th grade and above).



4-H Agronomy Opportunities - 4-H Crop Scouting

4-Hers can “Spark” their interest in plants by joining a team, preparing and competing at the 4-H Crop Scouting event. This opportunity ignites youth “sparks” by learning about crop growth stages, weed ID, insect ID, plant pathology, cover crops, forages and even sprayer nozzle calculations. Youth can participate in Jr Teams (grades 6-8th) or Sr. Teams (grades 9th and above) compete in this event towards the end of July.



4-H Agronomy Opportunities - 4-H Agriculture Ambassadors

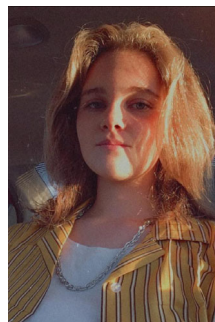
The SW region has four 4-H Agriculture Ambassadors this year. The 4-H Agriculture Ambassadors is an opportunity for youth in 10th grade and above to learn leadership skills and share their passion for agriculture. Every year 4-H members can apply and serve as a 4-H Agriculture Ambassador. 4-H Agriculture Ambassadors from the SW include:



Keegan L.
Renville County



Sarah F.
Martin County



Mary L.
Lyon County



Arnold J.
Big Stone County

Edison Robots in Renville County

We have 4 new partnerships with Community ED this spring with more programs this Summer and Fall. Youth that participated were offered a unique learning opportunity along with the opportunity to gain new skills and explore a new career path.



Want to know more?

We'd love to hear from you.

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