

Weber County 4-H Robotics County-wide Events -- An Overview

4-H Year: October 1, 2011 – September 30, 2012

To provide 4-H club members with an opportunity to meet other county youth and showcase their robotics skills, two types of county-wide events will be held:

- Robotics Challenge Nights (3-12th grades)
- Robotics Showcase Nights (K-2nd grades)

ROBOTICS CHALLENGE NIGHTS:

1. Robotics Challenge Nights (3rd-12th Grades):
 - a. Competitive Robotics Challenge Nights will be held for Weber County 4-H club members in grades 3-12.
 - b. County wide challenge events will be held on the last Friday during the following months (Jan, Feb, Mar, and April). Youth can only participate in one Robotics Challenge Night each month.
 - i. Session 1 - Friday, 4:30 – 6:30 p.m., Grades 3-12
 - ii. Session 2 - Friday, 7:00 – 9:00 p.m., Grades 3-12
 - c. To participate, teams must sign up for the Robotics Challenge Night with the 4-H office by the Monday prior to the event. Space/equipment limited to 12 teams at each Challenge Night.
2. Teams:
 - a. Youth may only participate in these events in teams of two.
 - b. All team members must be actively programming and/or building for the challenge.
 - c. Youth can participate in different teams at each Robotics Event; however, once the team has registered for the month's event, the team makeup cannot be changed.
3. Equipment:
 - a. Youth may use NXT or RCX systems for the Robotics Event.
 - b. Teams are limited to three motors to complete event.
 - c. Teams may bring their own kit and laptop or reserve a kit from the 4-H Extension Office when they register their team.
 - d. Only 12 kits/laptops are available for loan and will be reserved in the order reservations are received.
 - e. Loaned kits must be returned properly organized, or the team will not be allowed to utilize 4-H kits in future challenges or contests
4. Challenges:
 - a. Each Robotics Challenge Night will include:
 1. A movement challenge.
 2. A placement challenge.
 3. A speed challenge.
 4. A wildcard challenge.
5. Awards:

- a. Each team member will receive a certificate and blue, red or white stickers for each of the four challenge events.
 - Blue – 15 points
 - Red – 10 points
 - White – 5 points
- b. Rank Awards: The member's score from his high three Robotics Challenge Nights will be used to calculate end of year level:
 - Commander Rank: Earned 150 points or higher
 - Captain Rank: Earned 90 points or higher
 - Cadet Rank: Earned 50 points or higher