

2020 SAN ANGELO STOCK SHOW & RODEO

JUNIOR ROBOTICS ARENA COMPETITION

Laura Howard, Superintendent

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Entry Fee: \$40.00 per **team**

Entry Deadline: January 10, 2020 – www.sanangelorodeo.com

Date of Contest: Friday, January 31, 2020 – Gandy Ink Livestock Barn

Registration: 9:00-10:00 a.m., Friday, January 31, 2020

Time of Contest: 10:00 a.m., Friday, January 31, 2020

Results at approximately 2:00 p.m., or immediately following the completion of the contest.

1. All rules apply to the Junior Robotics Arena Competition. Please refer to the General Rules and Junior Show Rules. The only exception being for students entering in the school division will be exempt from 4-H and/or FFA membership requirements.

2. **FORMAT:** This is an arena contest with a prescribed problem. Teams will receive a set of challenge rules and specifications designed from a theme that will vary from year to year. Robots must be constructed, programmed, and tested before the contest. The official scenario will be released in early September and is available at www.tcea.org/robotics. Practice game mats and pieces are available through the same website.

Teams will have **TWO** attempts at this competition. Computers will be allowed and power sources will be available, though may be limited. Time permitting, teams will be allowed to make adjustments prior to and between matches, but must report for competition when called.

3. Each club, chapter, or school may enter as many teams as desired.

4. The contest will be divided into three divisions:

-Intermediate- Grades 3rd -5th

-Advanced- Grades 6th -8th

-Advanced- Grades 9th -12th

4-H and FFA teams may have 3rd graders compete. Teams are subject to reclassification by show management.

5. **Competing teams-** All teams must have one team sponsor (adult). Students are not allowed to compete on more than one team. Students will not be allowed to compete on both a 4-H and/or FFA team and a school team. All students must be from the same school, or club/chapter.

6. All teams (4-H, FFA, & School) will consist of a **maximum of 4 members** within the same age division plus 1 team sponsor (Adult)

7. Each team will submit a team name, which must be appropriate and meet common school standards.

8. Lego EV3 and NXT are acceptable systems for robots to be constructed.

9. Only registered students are allowed to touch the robot and the computer used to program it. The only exception is when technical problems with the computer occur. Live student problem solving is the spirit of the competition.

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10. Only one robot per team will be allowed in the tournament. Backup robots will NOT be allowed. Teams found in violation will not be allowed to compete in the tournament.
11. Matches are 2 minutes in length. The match will begin with a 3, 2, 1 countdown, blow of whistle or some other sound. The match will end with a three second countdown, blow of a whistle or other sound. Each team will have one minute to set-up and one minute to take down.
12. No rematches will be awarded unless it is deemed that there is a failure of provided field materials.
13. No time-outs will be allowed for any reason.
14. All score disputing must be settled before the team leaves the field.
15. Lasers are not permitted.
16. During the competition, students may not communicate with anyone except other registered students and competition staff; all forms of communication are prohibited, including, but not limited to, live and electronic communication (talking, texting, videos, etc.). Students should request assistance from competition staff if any communication with parents or sponsors is necessary.
17. If students communicate with parents or sponsors in violation of this rule, or if they are caught using any communications devices, the team may be disqualified and asked to leave the competition.

Scenario Release Date: September 1, 2019
Available at: <http://www.tcea.org/robotics>

Entry Form and more information will be available at
<http://www.sanangelorodeo.com/events/2019/robotics>

Awards will be given to the top three places. The first place teams in each division will receive a belt buckle for each contestant and sponsor. Buckles will be presented the day of the contest. Second through third place team members will receive medals, and sponsors will receive a plaque.