

VZCJLS AG ROBOTICS GENERAL RULES 2027

The Ag Robotics competition will be held in conjunction with the Van Zandt County Market Show. **All competitors on the team must be in good standing and eligible with the club/organization and with a public, private or home school program in Van Zandt County.**

Purpose: The purpose of this contest is to encourage FFA and 4-H members to work in technology STEM and correlate that with Agriculture concepts to ensure that our members are on the cutting edge of technological aspects of our industry. This contest is open to all students that are in 4-H, FFA or have been or currently enrolled in a robotics class or program in school.

Deadline date: Deadline date: March 1, 2027

Paper entries must be postmarked OR submitted online by Google Sheet (VZC schools/4H) AND payments postmarked by March 1, 2027. Late fees are \$100/entry, in addition to the \$60 entry fee until March 11, 2027.

Mail to Van Zandt County Junior Market Show
PO BOX 120
Grand Saline Texas 75140

Make checks payable to: Van Zandt County Junior Market Show (VZCJLS). If your school needs a W-9 for accounts payable, please email simcow@aol.com.

- Time, Date and Location of this event:

Monday, March 29, 2027

On the grounds and in the building by 8:00 am

Coaches/competitor meeting 8:30 am at the Todd Berry Building

ALL TEAMS WILL NEED TO PROVIDE 1 JUDGE TO HELP FACILITATE CONTEST!

Each school can bring multiple teams, but all teams must be pre-registered so that we can plan accordingly for boards and space. Cost of Contest: \$60.00 per team (maximum 4 members) -- Contestants may move up in an age break but can not move down and teams can be of mixed membership 4-H/FFA, but must be in good standing with the respective organization.

Age Groups for this contest as of 9/1:

- Junior Division 3rd grade or 9 years old - 8th grade or 13 years old
- Senior Division 9th grade or 14 years old to 12th grade to 18 years old

Prizes for each division are guaranteed 1st place (Grand Champion) - Banner for chapter/organization & 2nd Place (Reserve Champion) - Banner for chapter/organization, depending on entries for each division there could be more prizes awarded, i.e. ribbons. Length of Contest: Each SR team will have 1.5 hours and Junior teams will have 2 hours to complete the programming phase and practice on the actual contest board. There will be a tournament

with 2 rounds of preliminary, with the highest 4 teams' average scores advancing to the finals.

There will be a meeting for all competitors and coaches/advisors starting at 8:30am. This meeting is to go over the rules, timeline, contest scenarios and answer questions at that time concerning this contest. Parents/spectators will not be allowed to visit or correspond with participants after the contest begins. The participants are not to utilize phones or other electronic devices to communicate with parents/coaches. Contestants will have access to the actual contest boards during the 1.5 hour Senior and 2 hour Junior programming time. The team is responsible for bringing all supplies needed for this contest; there will be "generic extra office supplies" for all contestants to use as needed if they so choose.

ALL supplies that are brought into the contest site will be subject to inspection to make sure that all pieces are broken down completely. You ARE responsible for setting up your device for Bluetooth capabilities. WIFI will NOT be allowed during this contest.

1. Students must use any of the following Lego® Mindstorm® NXT, EV3, Spike Prime, Inventor robot, or VEX. -- NO OTHER TYPE WILL BE ALLOWED WITH OUT PRIOR APPROVAL.
2. Students may use any LEGO Mindstorm Education EV3 or Prime Expansion kit.
3. LEGO parts may not be physically modified.
4. Students will BUILD and PROGRAM robots during the time allotted on the day of the contest. No pre-assembled parts will be allowed.
5. Students will NOT be allowed any outside communication with anyone other than teammates and judges during the contest. Cell phones are not allowed.
6. Teams are limited to 4 motors, 1 color sensor, 1 ultrasonic sensor, and 2 touch sensors. The gyro sensor may be used.
7. Students may program with any programming language EV3 accepts. Bluetooth may be used for programming only. Remote controlling robots is NOT allowed during the contest. All tasks must be done by an autonomous robot to receive points.
8. Students will have 2 hours Juniors/ 1.5 hours Seniors to build and program their robots. Each round lasts 2 min.
9. Students may retrieve and restart their robot according to the game specific rules.
10. Students may NOT remove any game piece from the game table during the match.
11. The team captain must stop the robot when instructed to, by the table judge. Students are NOT allowed to retrieve the robot from the table after the round ends until instructed to by the table judge.
12. There is to be NO Computers/IPADS or Programing Devices at the table during the actual contest. All robots must run autonomously, once the contest starts for that run there is to be no adjusting of program.
13. Students & Judges ONLY are allowed at the tables at all times other than the Coaches meeting including during contest runs-- NO parents/adults or spectators are allowed at the table at any times to watch the contest.
14. The maximum robot starting and restart dimensions are 12" x 12" x 12", no matter the type of Robot being used. Table dimensions may be 4x8 or 4x4 depending on how many teams enter, so please be aware of the small space for turning and accomplishing tasks.
15. Decisions for all rule disputes will be determined at judges discretion.

ENTRY form for Van Zandt County Ag Robotics Contest

Deadline: March 1, 2027 Cost: \$60.00 per team of 4 -- late fee within 10 days of deadline
March 11, 2027 \$100.00 extra

CONTEST information: . This contest is open to all students that are in 4-H, FFA, or have been or currently enrolled in a robotics class or program in school.

Circle one: Senior Team Junior Team

Organization/Group _____

Member 1: _____ Member 2: _____

Member 3: _____ Member 4: _____

Total number of shirts and sizes for contestants not receiving a shirt for any other part of the fair contest (Shirts are for VZ County Teams ONLY): _____

Advisor/Coach: _____ Contact Number: _____

Email of Advisor/Coach: _____

I, _____ have read and understand the rules as listed above and will ensure that my students will obey all rules or it will be grounds for Disqualification by the AgRobotics facilitators. Advisor/coach will be responsible for signing. I understand that all schools/organizations competing will need to provide 1 person for judging and facilitation of the competition rounds of the contest.

Contest Chair/Contact Person: Chassity Sukiennik
email: csukiennik@martinsmillisd.net

VZC Agrobotics Score Sheet/Rubric

(example, this is not for this year, this is a reference sheet only)

Team Name _____ TABLE Number _____

Maintenance TASK	POINTS	Number of completed
Solar panel (light switch cover)	25	
Water filter (golf ball)	25	
Air duct (pvc pipe)	25	
Antenna (bolt)	30	
Buggalo waste (lock nuts)	10 each (30 max)	

Maintenance total points (135 max) _____

Wrangling TASK	POINTS	Check highest number wrangled
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1 buggalo wrangled	10 total	
2 buggalo wrangled	20 total	
3 buggalo wrangled	40 total	
4 buggalo wrangled	80 total	
5 buggalo wrangled	160 total	

Wrangling total points (160 max) _____

TOTAL POINTS (295 max) _____

TEAM Captain Initial _____ - Once this is initialled it becomes the official scoresheet for the contest.