

Leo's 141 Robotics Team Application

Due: Friday, May 1st at 10:00 PM

Please fill out the following Application and e-mail, mail,
or personally deliver to Coach Nicole.

May mailing address can be given upon request.

Any questions? Just ask!

Nicole Howard

howardfamily411@gmail.com



141 RoboRoar Robotics Team Application



Student Name: _____ Birth Date*: _____

Parent / Legal Guardian Name(s): _____

Parent(s) Cell Phone Number(s): _____

Parent(s) E-mail Address(es): _____

2026 – 2027 Grade: _____ Elementary School: _____

Current Teacher: _____ Previous Teacher: _____

**Student must be born after May 1, 2014 (i.e., who will be 12 or younger at VEX Worlds 2027).*

2026-2027 Season Information

We're starting early because our goal is to build a highly competitive team! Leo's 141 Robotics is looking to fill 7 spots for the upcoming season. In-person team try-outs will take place in late May (date TBA). During this time, students will be evaluated on the key qualities needed for success in our program, including teamwork, drive, focus, patience, eagerness to learn, and most importantly — genuine interest in robotics.

To get a glimpse of what our team is all about, please take a moment to watch this highlight video from last season: https://www.youtube.com/watch?v=RN-UyJbe_yg This year's game challenge will be announced soon — stay tuned!

Please note that this is a highly competitive program. Many qualified students will try out, and some may not be selected due to limited roster spots. The upfront regular season fee is \$150. Families are responsible for travel expenses and meals at competitions. If you have questions regarding the selection process or financial considerations, please don't hesitate to reach out.

Our regular season runs from early June through mid-May (culminating with the World Championship, if qualified). Practices will be held at Coach Nicole's home in Grabill on assigned dates based on team schedules. Students will work on the Engineering Design Process, driving skills, coding, the Engineering Notebook, and Online Challenges. During competition season (November–April), additional time commitments may be required. We anticipate two to four weekday competitions (typically Thursdays after school) and 3–4 Saturday competitions (generally 8:00 AM–4:00 PM). This year, we also plan to travel to the Kalahari Classic and the State Championship at Lucas Oil Stadium, which will require hotel expenses.

It may sound like a lot — and it is! But this program is equally rewarding, exciting, and full of growth opportunities. The skills students develop here extend far beyond robotics. We look forward to meeting new students and welcoming back returning team members.

Please reach out with any questions. The future is here!

Nicole Howard, Leo's 141 Robotics Coach

Parent Form

Designing and Building

Members of this sub-team are responsible for creating, constructing, and improving the physical robot. They brainstorm solutions, sketch ideas, test different mechanisms, and make adjustments. Through trial and error, they turn ideas into a working robot that can reliably perform on the competition field.

Coding

Members of this sub-team are responsible for coding the robot so it can move, score, and complete tasks both autonomously and during driver control. They test and refine programs, adjust sensors and motor settings, and problem-solve to make the robot more accurate, efficient, and consistent on the field.

Documenting

Members of this sub-team are responsible for recording the team's entire Engineering Design Process in the engineering notebook. They document brainstorming ideas, design changes, test results, programming updates, and reflections so judges can clearly see how the robot evolved over time. Strong documentation tells the story of the team's problem-solving, teamwork, and growth throughout the season.

Driving

Members of this sub-team are responsible for operating the robot during matches with precision, focus, and strategy. They practice consistently to improve control, timing, and accuracy, working closely with teammates to maximize scoring opportunities. Strong drivers stay calm under pressure, adapt quickly during matches, and communicate clearly with their alliance partners.

List, in order of favorite to least favorite, which sub-team you want to be on:

1. _____
2. _____
3. _____
4. _____

Why is #1 your favorite?

Name: _____

Grade: _____

Robotics Team: Questionnaire

1. What are you most excited about? Why?

2. What do you want to learn or see? Why?

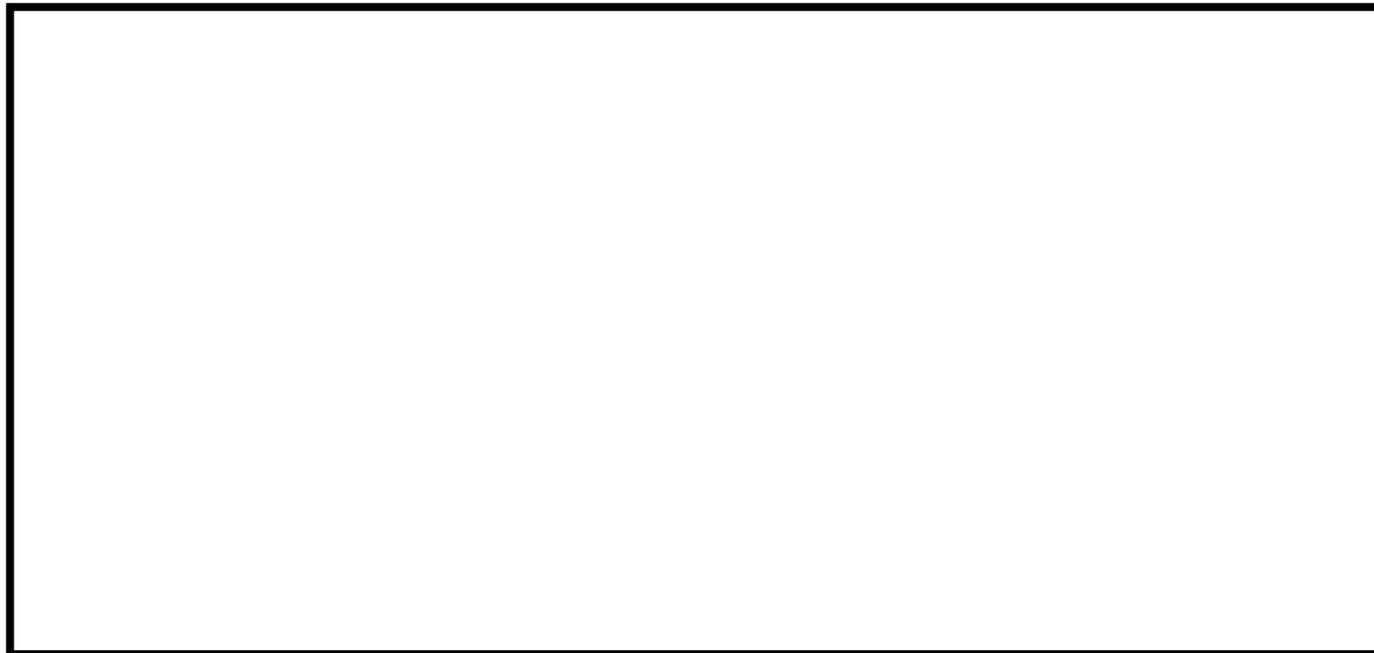
3. How will you best collaborate with your teammates before and during a competition?

4. If there is a conflict, how will you sort it out in a positive manner?

Name: _____

Grade: _____

Pre-Robot Build: Design Idea



Using what you know about last year's VEX Robotics Competition, how would you design your robot? Draw a picture above and describe it below.

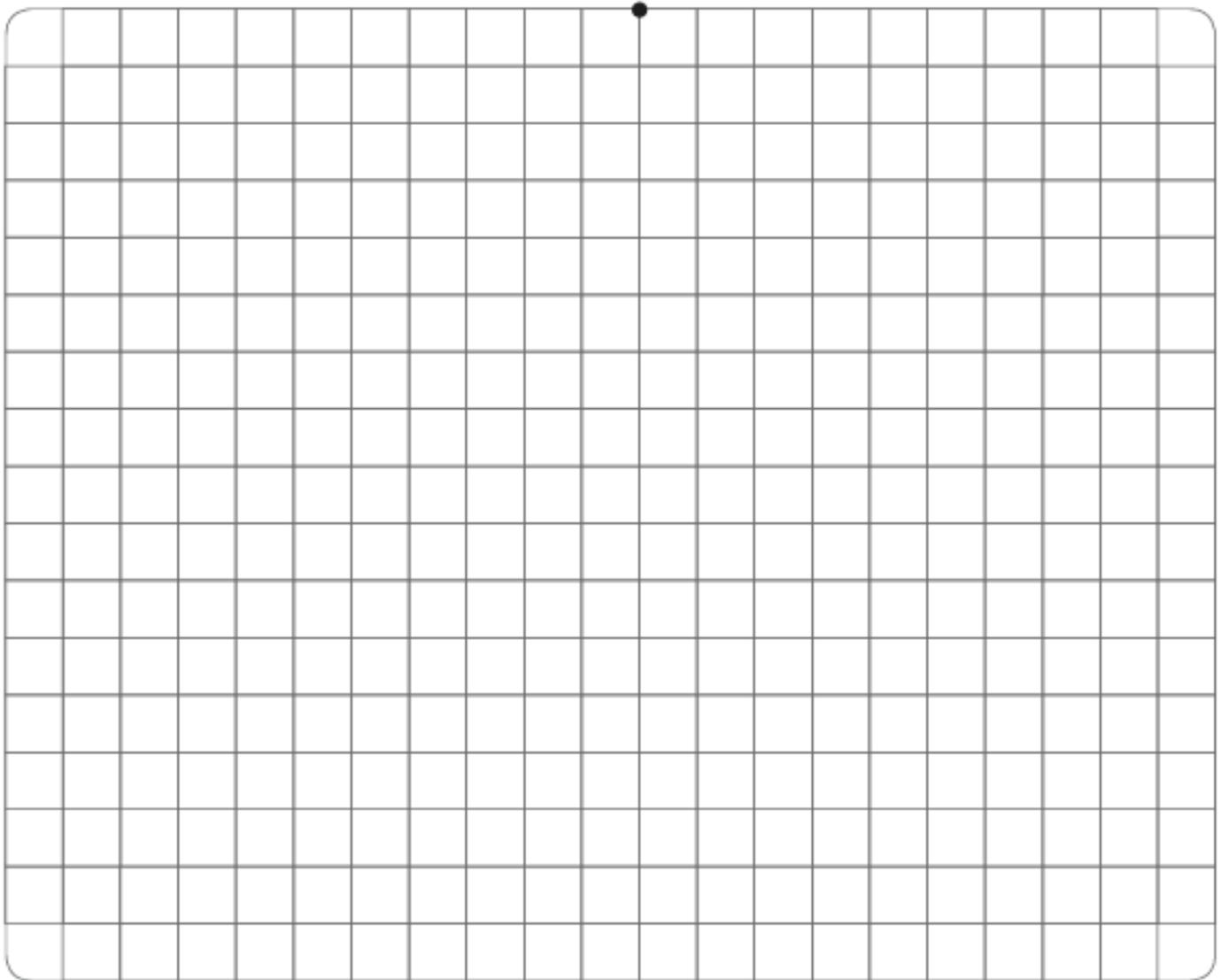
Name: _____

Grade: _____

Robotics: Directional Coding

Follow the directions to reveal the hidden image

Start at the dot: 1→ 1↓ 1→ 1↓ 1→ 1↓ 3← 3↑ 1← 6↓ 1← 1↑ 1←
1↓ 1← 1↑ 1← 6↓ 1← 1↑ 1← 1↓ 1← 1↑ 1← 7↓ 6→ 4↑ 1→
1↑ 3→ 1↓ 1→ 4↓ 6→ 7↑ 1← 1↓ 1← 1↑ 1← 1↓ 1← 6↑ 1←
1↓ 1← 1↑ 1← 1↓ 1← 3↑



Hint: Start at the black dot on the graph and use colored pencils or markers of the corresponding arrow color.
If you did it right, you will end up back at the dot!

Rules

To ensure the teams can move forward at the rate needed to compete and for each student to be successful, all students must agree to the following set of expectations, rules and procedures:

- Students will comply with the Robotics Education & Competition (REC) Foundations Behavior and Ethical Standards.
- Students must consistently attend team meetings and competitions and be punctual. If a student misses more than three meetings or competitions without prior agreement from the head coach, they are voluntarily departing the team.
- Integrity means being honest and having strong moral principles. A person with integrity behaves ethically and does the right thing, even when not under direct observation. All student must exhibit a high level of personal integrity.
- Students are expected to understand that judges, referees and other adults may sometime make mistakes even when it is to the detriment of the team. It is expected that students know the game rules and can directly quote them when making an enquiry about a referee's or a judge's call. All interactions with adults and event staff will be polite, professional, and realize that the event head referee has the final say in all rules interpretations.
- No playing around or being loud, this is very disruptive to instructors and other students who are trying to concentrate and stay focused.
- Students must listen, not talk, have disruptive behavior or moving around during instruction. Always look at the adult who is giving instruction.
- Students are expected to be working towards and focused on team goals throughout the practices and competitions.
- Students are expected to work diligently and collaboratively with other members on the team.
- Students must be on task at all times, there is always something to be done during practice and at every competition.
- Students must raise hand to ask or answer questions when instructor is addressing the group.
- Students must be attentive and respectful to coaches, referees and teammates.
- Students must maintain good grades.
- Students must have positive classroom, practice and competition behavior. No negative comments towards others!
- Students are expected to restore the environment during the last 10-15 minutes of practice.
- Students are expected to work diligently and collaboratively with other members of the team.
- Students are expected to be working towards and focused on the team goals throughout the team meetings and competitions.
- Parents must provide transportation to and from practice.

Students who are unable to consistently meet team expectations and guidelines may require a conversation with parents to discuss next steps. In some cases, this could result in a mutual decision for the student to step away from the team to ensure the best experience for everyone involved

I, _____, understand that I must maintain good grades, not receive any discipline referrals, work diligently and collaboratively with other team members, and use care with robotics equipment to maintain my spot on the 141 Robotics Team if chosen.

Student Signature

Date

I give my son/daughter permission to participate in the after-school 141 Robotics program if chosen. I understand that my child must follow all requirements to maintain their place on the team if chosen.

Parent Signature

Date

Name: _____

Age: _____

Additional Comments?

Students, please leave any additional thoughts
that you may want to share.

We are so proud of you for making it this far! Best of luck!!

The following will be filled out by the Coach and Try-Outs Team. Please leave blank.

- Application
- Coach/Teacher Survey
- Try-Outs

SCORE: _____/40

SCORE: _____/20

SCORE: _____/40