

Reno Rovers Robotics Club

Explore Program (Ages 6–10) - (Monthly)

A creative, hands-on STEAM robotics experience inspired by FIRST® LEGO® League Explore

Program Overview

The Reno Rovers Explore Program introduces young learners to robotics, engineering, and teamwork through playful, hands-on discovery. Inspired by the FIRST® LEGO® League Explore curriculum, our club reflects the values of teamwork, innovation, and curiosity—while offering a flexible environment where kids can explore more freely, try new ideas, and build multiple robotic creations throughout the season.

Students work individually and in small groups to build LEGO® robotic models, test ideas, redesign their builds, and share their thinking with classmates. By explaining the “why” behind their creations, children strengthen communication skills, creativity, and confidence—something unique to the Reno Rovers approach.

This is not a competition-based or festival-focused program. It’s designed as a space where kids can learn, explore, and grow at their own pace.

What Kids Will Learn

Robotics & Engineering Foundations

- Build and test LEGO® robotic models
- Explore gears, motors, structures, and simple mechanisms
- Learn how engineers design, test, and improve ideas

Early Coding Skills

- Practice sequencing, loops, sensors, and simple automation
- Turn ideas into working robotic models

Creative STEAM Exploration

- Participate in guided, open-ended challenges
- Integrate science, technology, engineering, art, and math
- Personalize and decorate builds to express creativity

Teamwork & Communication

- Collaborate with peers and share ideas respectfully

- Practice explaining their design choices and problem-solving process
- Build confidence through group discussions and mini-presentations

Presentation & Showcase Skills

- Share their creations with classmates and mentors
- Explain the “why” behind their design
- Celebrate progress with classmates

What Makes This Program Special

- Opportunities to build multiple robot models, not just one project
- Emphasizes experimentation, iteration, and redesign
- Offers opportunities to try multiple robots and design ideas
- Focuses on explaining the reasoning behind each creation
- Provides a welcoming club environment that builds confidence and curiosity
- Supports bilingual communication and language exposure when appropriate

Why Families Love Reno Rovers

✓ Strengthens critical thinking and problem-solving ✓ Builds confidence through teamwork and sharing ideas ✓ Balances structure with open-ended exploration ✓ Introduces STEM concepts without pressure ✓ Keeps learning hands-on, engaging, and age-appropriate ✓ Encourages creativity, communication, and self-expression

Program Fees & Enrollment

Tuition

- \$180/month
- \$35 one-time enrollment fee (new students only)

What's Included

Weekly Learning Experience

- One 60-minute class per week
- Hands-on robotics and STEAM exploration
- Guided challenges using LEGO® robotics
- Supportive coaching in small-group settings

Robotics & STEAM Materials

- LEGO® robotics kits for building and testing
- Access to motors, sensors, and building elements
- STEAM supplies for creative, open-ended projects
- All materials provided during class — no purchase required

Learning & Creativity Tools

- Opportunities to build multiple robotic models
- Open-ended design challenges that encourage experimentation
- Time for redesign, iteration, and problem-solving
- Optional bilingual (English/Spanish) communication support

Showcase & Presentation Opportunities

- Mini-presentations to classmates
- Guided practice explaining design choices
- Club showcases and learning celebrations

Program Support

- Flexible month-to-month enrollment
- A welcoming, confidence-building club environment
- Encouragement of creativity, communication, and self-expression

Enrollment is month-to-month, giving families flexibility while allowing children time to grow their skills and confidence.

Reno Rovers Robotics Club

FLL Explore Festival Program (Ages 6–10) – (Seasonal)

A seasonal, project-based robotics program preparing young learners for the FIRST® LEGO® League Explore Festival

Program Overview

The Reno Rovers FLL Explore Festival Program is a seasonal program designed for young builders who want a deeper, more structured robotics experience. This program follows the official FIRST® LEGO® League Explore curriculum, guiding students through the full process of building a themed LEGO® model, learning core engineering concepts, and creating a Festival Poster that showcases their ideas, research, and teamwork.

Students work in small teams to explore the annual FLL theme, design and build a motorized LEGO® model, and prepare to present their work at the FIRST® LEGO® League Explore Festival. This program emphasizes teamwork, communication, creativity, and the engineering design process.

What Kids Will Learn

Robotics & Engineering Foundations

- Build a themed LEGO® model using motors and moving parts
- Explore gears, structures, and simple mechanisms
- Learn how engineers design, test, and improve ideas

Coding & Automation

- Use LEGO® robotics to program simple movements
- Practice sequencing, loops, and sensor-based actions
- Bring their model to life with motion and automation

Research & Theme Exploration

- Investigate the annual FLL Explore theme
- Connect real-world problems to their LEGO® model
- Learn how STEM concepts apply to everyday life

Teamwork & Collaboration

- Work together to plan, build, and solve problems
- Share responsibilities and support teammates
- Practice respectful communication and idea-sharing

Festival Poster & Presentation Skills

- Create a themed Festival Poster
- Explain their model, research, and design process
- Present confidently at the FLL Explore Festival

What Makes This Program Special

- Follows the official FIRST® LEGO® League Explore curriculum
- Provides a structured, project-based learning experience
- Prepares students for a real FLL Explore Festival
- Builds teamwork, communication, and presentation skills
- Offers a supportive environment where every child contributes

Who This Program Is For

This program is ideal for children who:

- Enjoy building and working on a long-term project
- Want to participate in an official FLL Explore Festival
- Thrive in teamwork and structured challenges
- Are ready for a deeper robotics and engineering experience

Program Schedule

- **Season Length:** 10 weeks (varies by festival date)
- **Weekly Meetings:** 90 minutes
- **Festival Participation:** Required as part of the program

Disclaimer

Reno Rovers Robotics Club participates in the FIRST® LEGO® League Explore Festival but is not owned, operated, or endorsed by FIRST®. FIRST®, LEGO®, and FIRST LEGO League® are registered trademarks of their respective owners.

Program Fees & Enrollment

Season Tuition

- \$600 per child (Covers the full FLL Explore Festival preparation period)

What's Included

Weekly Team Experience

- Weekly 90-minute team meetings
- Small-team collaboration and supportive coaching
- Guidance through the full FLL Explore project cycle

Official FLL Materials

- Official FIRST® LEGO® League Explore materials
- FLL Engineering Notebook / Engineering Book
- Registration for the FIRST® LEGO® League Explore Festival

Robotics & Building Resources

- LEGO® robotics kits and building supplies
- Access to motors, sensors, and building elements
- Structured support for coding and model development

Festival Preparation

- Festival Poster creation and refinement
- Presentation practice and communication coaching
- Participation in the FIRST® LEGO® League Explore Festival

Team Gear

- **Official team shirt** for festival day

Season Length

- Typically 10 weeks, depending on the official festival date

Disclaimer

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