



FIRST
LEGO
LEAGUE

The essentials for your first season in the FIRST Lego League Challenge

Congratulations on starting a FIRST LEGO League Team! We are excited to support you as you take on this endeavor as a new team! We hope that the resources below are helpful as you get your team started this season.

.Registering & Rostering a team

- If you have not registered your school for a team already, you can do so through the [FIRST Inspires website](#). We recommend watching [This short video](#) to help you register your school for the FIRST LEGO LEAGUE challenge.
- FIRST allows each school to roster up to 10 students as a part of their FLL team. The first lego league challenge is designed for students in grades 4-8.

Here are some short videos to use as reference:

- [Creating a New Team](#)
- [Paying Team Registration Fees and Updating Team Contacts](#)
- [Completing the YPP Screening Process](#)
- Need to leave a team? Watch this [video](#) to see how to do it.

I. Budgeting for an FLL team

The FIRST lego league challenge has an expected minimum cost of \$1,500 CAD for first year teams. These costs listed below are approximate and may vary from year to year.

Item	Cost	Paid to
Team Registration Fee	\$420 CAD	FIRST Robotics Canada
Taxes & Shipping for Season Materials	\$50 CAD	FIRST Robotics Canada
LEGO SPIKE Prime Core Set	\$500 CAD** + taxes & shipping	Studica, B&B Education or Spectrum
Challenge Set	\$110 CAD + taxes & shipping	Spectrum (only to officially registered teams)
Tournament Registration Fee	\$150 CAD	Tournament host in October

Table Construction Materials	\$100 CAD**	Home improvement store
Miscellaneous (i.e., team shirts, food, office supplies, etc.)	\$100 CAD	
TOTAL	\$1500 CAD*	

** The SPIKE Prime kit is reusable from season to season.

Here is detailed information and links about your team's class pack.

[Class Pack - FIRST LEGO League Challenge](#)

Team registration for the 2025/2026 season:

- Provides an Official FIRST LEGO League Challenge number
- Printed/Digital Team Meeting Guide
- Robot Game Rulebook
- Student Engineering Notebooks
- FIRST Thinkspace access to materials for getting started
- Access to team roster to register coaches and participants
- Ability to register for FIRST LEGO League Challenge

Game Challenge set :

- Provides game elements used on board
- Provides official game board

LEGO Education Spike Prime Robot:

- Includes all necessary materials to create your FIRST LEGO League challenge robot
- Provides replacement parts for various kit items
- Teams are allowed to reuse robot kits between seasons

These fees do not include transportation to and from events, shipping, or any additional team fees. Teachers are recommended to use this opportunity to teach their students the basics of sponsorship outreach, as learning to contact businesses for sponsorship is a great learning opportunity for students. For help with funding for your team, you can also visit the [FIRST support page for funding opportunities](#).

II. Resources and FireHawks Assistance

- FIRST has a dedicated page [here](#) with links to guides to season materials. They also have a dedicated manual to help teams get started. [Click here](#)
- FIRST Inspires also contains a [resource library](#) for additional support about the challenge.
- You can contact the FireHawks at any point if you need assistance:

- Mentor contact: belbeck-regom@hcdsb.org
- Attached is a [playlist](#) with some videos (1 hours total viewing time) where lead mentors share their experiences and advice for starting and managing an FLL team:
- Our team will also try to offer dedicated student mentors to help teach your team about how FIRST works and how to approach the challenges. Please email Mrs. Rego at belbeck-regom@hcdsb.org with the days and times your team is meeting. We will do our best to find students that can attend.
 - Please keep in mind that lunch time meetings are challenging for our students to attend.

III. FIRST Core Values

The FIRST Core Values are a set of principles that FIRST aims to instill in the students that participate in the program. There are 6 core values:

- **Discovery:** *We explore new skills and ideas.*
- **Innovation:** *We use creativity and persistence to solve problems.*
- **Impact:** *We apply what we learn to improve our world.*
- **Inclusion:** *We respect each other and embrace our differences.*
- **Teamwork:** *We are stronger when we work together.*
- **Fun:** *We enjoy and celebrate what we do!*

IV. The Game

- The FIRST Unearthed challenge will officially launch in August, 2025.
 - Launch video: [Unearthed 2025-26 Game Challenge](#)
- The FIRST LEGO League Challenge is typically a 15-mission game that spans 2 minutes and 30 seconds. These missions are worth varying amounts of points, and the goal of the game is to secure as many points as possible within the time frame.
- There are also additional points awarded to teams that keep their robot within certain size limits, and teams that manage to execute the tasks with little human interaction throughout the match.
- To code the robot, a simplified version of python is used in combination with your spike prime robot. To learn more about how it works, visit the [lego spike prime website](#).

V. The Innovation Project

- The innovation project is a challenge where students are tasked to come up with a STEAM-related project (tied to the game theme) that uses technology to improve our lives.
- Typically, students present the project through poster/bulletin boards, miniature real-life models, and oral presentation.
- The innovation project is a mandatory aspect of competition for teams wishing to qualify for certain awards and progression to the provincial championship.
- Information about the guidelines for the innovation project can be found [here](#).

VI. Events

- Each team is given 1 qualifying event in their season (typically held late November or early December), where they are given the chance to progress to the provincial FLL championship, held in late January.
- Events are split into the following aspects:
 1. *The Matches:*
 - Each team will have a minimum of 3 150-second matches.
 - Only the best score between the matches are counted.
 - This contributes towards your “Robot Design and Performance” points.
 2. *The Innovation project:*
 - During the event, each team presents their innovation project once to a panel of judges. They will judge your team’s performance based on the creativity of your project, design, presentation, and display. The innovation project also awards points towards advancement to the provincial championship.
 3. *Judging & Awards:*
 - Throughout the event, judges will be observing each team based on how they exemplify the FIRST Core values. There are awards based on how your students conduct themselves, and their behavior also awards “Core Values” points towards the progression of your team to the provincial championship.
- Teams may also be able to register for invitational events in their area during the off season.
- **The FireHawks are proud to host the HCDSB Spring Event in May. This is an off-season event and it gives your team a chance to run your robot one last time! Registration will take place in the new year. Stay tuned for more information!**

Please contact us if you have any questions regarding FIRST. We look forward to seeing your team this season!

To find out more about FRC Team 9098 - FireHawks you can visit our website:

www.frc9098.ca

Follow us on Instagram [@frc9098_hcdsb](https://www.instagram.com/frc9098_hcdsb)

View our Youtube channel [@frc9098-hcdsb](https://www.youtube.com/channel/UCfrc9098-hcdsb)

