澳門科學館
CENTRO DE CIÊNCIA DE MACAU
MACAO SCIENCE CENTER

FIRST LEGO LEAGUE CHALLENGE

2026/27 *FIRST*® LEGO® League Macao Regional Final

FLL Challenge - Founders Edition Registration Rules

Objectives

- Cultivate students' creativity, critical thinking, and integrated application skills to develop innovative solutions.
- Apply acquired knowledge of mathematics, science, and technology to real-world problems.
- Develop students' technological skills, effective communication, teamwork abilities, and enhance self-confidence.

Season Theme

BIOGLOW™ FOUNDERS EDITION

Students will brainstorm and strategize around the annual thematic robot missions. They will utilize LEGO® Education kits to design, build, program, and test robots in order to complete a series of tasks. Furthermore, students must create and present their team's scientific inquiry and innovative solution based on the annual theme. They are also required to report on and showcase their learning outcomes by constructing models and presentation boards.

Partnership

Organizer: Macao Science Center
Support by: Education and Youth Development Bureau, Urban Planning and Construction Bureau of Guangdong-Macao In-Depth Cooperation Zone in Hengqin
Implementer: Macao Gifted Education Association

Eligibility and participation

Students in Grades 4-Secondary. Participants must be born on or after July 31, 2010. Each team is composed of 6-8 students and 1–2 coaches.
***The competition is open to both school-based and community-based teams.**

Required Kits

2026/27 FLL Challenge Set (#45832) and LEGO® Education kits.

Competition Date

Late February 2027 (to be announced)

Registration

Deadline: From now until 23:59, January 15, 2027.
To register, please visit: www.msc.org.mo
Registration fee: MOP5,200 per team, which includes one **2026/27 FLL Challenge Set (#45832)**.
For institutions that register three teams at once, a bundle discount of MOP4,200 off the total amount.
Registration is only confirmed after payment is completed.

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Briefing Session

Date: October 10, 2026, 14:00–17:30
Content: Explanation of competition regulations.

Ecology Talk

Date: November 21, 2026, 10:00-13:00 (MSC Convention Center)
Participant cap: 60 individuals, with a maximum of 3 participants per enrolled FLLC team.
Content: Biologist **Dr. Danny Leong** is invited to introduce core concepts of biodiversity and ecological conservation, along with an overview of related scientific research.

Robotic Workshop

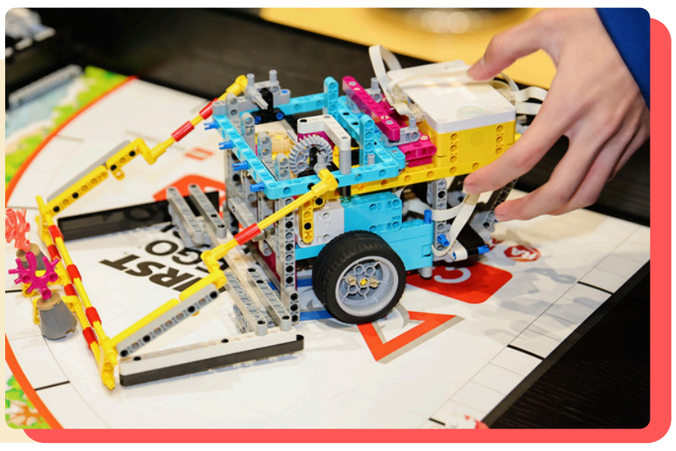
Date: (to be announced)
Participant cap: 36 individuals, free for mentors of registered FLLC teams only, MOP 800 per person for non-competing teams.
Content: Introduction to tasks, tasks analysis and grouping methods, route strategy planning, and hands-on practice covering 1–2 theme missions. Participants will work in groups of three during the event.

Competition Details

The competition consists of two parts:

Part 1: Robot Game Challenge

Teams must design and build a robot, and develop strategies to autonomously complete missions on the season's mission field within a limited time. Each team will participate in three matches, each lasting 2.5 minutes. The highest score among the three matches will be taken as the final score.



Part 2: Project Presentation & Q&A

Teams must present and defend their work in **three major areas:**

1. Innovation Project – Research on the season theme, identify real-world problems, propose innovative solutions, and analyze design concepts using models and posters.

2. Robot Design – Introduce robot structure, functions, originality, iteration process, and demonstrate programming.

3. Core Values – Judges will observe teamwork and collaboration during the presentation.

The Project Presentation & Q&A session lasts 30 minutes, including team sharing and judges' feedback.

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Awards

All teams will receive certificates. The competition will also present the following awards, with winning teams receiving trophies or medals.

Champion	Robot Performance Award - 1st Place	Innovation Project Awards
1st Runner-up	Robot Performance Award - 2nd Place	Robot Design Awards
2nd Runner-up	Robot Performance Award - 3rd Place	Core Values Awards
		Merit Awards

Other Information

1. The official English Robot Game Mission rules shall prevail in case of discrepancies.
2. The winning FLL Challenge team this season is eligible to participate in international or regional competitions announced by the FIRST® LEGO® League Greater China Organizing Committee; the quota allocation is subject to the Organizing Committee's official announcements.
3. Teams advancing to international or regional competitions must pay the registration fee to the event organizer, as specified in the relevant competition announcement. Travel and accommodation expenses are not included.
4. The Organizing Committee reserves the final right of interpretation for advancing teams.
5. Results and awardees will be announced on the Macao Science Center website: www.msc.org.mo
6. The organizer has the right to terminate the event, modify regulations, or disqualify teams for misconduct. Any disputes will be subject to final interpretation by the organizer.

For inquiries, please contact：

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