

What is the FIRST® LEGO® League Challenge?

FIRST® LEGO® League Challenge is a global STEM competition. Groups of up to 10 young people, aged between 9 to 16 years, work as a team to explore a given topic and to design, build and program an autonomous LEGO® robot to solve a series of missions.



At a regional FIRST® LEGO® League Challenge tournament, teams from across the region come together to be assessed on each of the four parts of the Challenge:

ROBOT GAME



Teams build a robot using a LEGO® MINDSTORM® or LEGO® SPIKE™ Prime kit. Teams programme their robot to autonomously complete a series of missions on a specialised challenge mat, aiming to score as many points as possible.

ROBOT DESIGN



Teams explain the process of designing, building, and programming their LEGO® robot; demonstrating their engineering, problem-solving and teamwork skills.

INNOVATION PROJECT



Teams research the FIRST® LEGO® League season theme and explore different ideas relating to that theme. They then identify a problem, come up with a potential solution, and give a presentation to communicate their solution.

CORE VALUES



Teams must demonstrate the FIRST® LEGO® League Core Values: innovation, teamwork, discovery, fun, impact and inclusion. Being respectful to others and having a great time are central to what makes FIRST® LEGO® League so special.

[WATCH SUMMARY VIDEO](#)

Why FIRST® LEGO® League Challenge?

Impact Reports:

 [IET Education Impact Report 2022-2023 for Faraday Challenge and FIRST® LEGO® League](#)

 [IET Education Impact Report into FIRST LEGO League 2019](#)
(with focus on SEND, Girls in STEM and Behaviour)

 [FIRST® LEGO® League Global Impact Report from FIRST®](#)

 The LEGO Foundation: Closing The Skills Gap through Education Reform - [Proposal Paper](#) and Call to Action

 [The LEGO Foundation: White Paper on Learning Through Play](#)

Gatsby Benchmark 6 - Experiences of the Workplace:

<https://www.gatsbybenchmarks.org.uk/guide-to-gatsby-benchmark-6/>

A number of FIRST® LEGO® League Challenge tournaments happen in workplaces that have strong connections to growth sectors in the regional economy. Many of the adults involved in mentoring, judging and refereeing are volunteers who work in these host workplaces, or are [STEM Ambassadors](#).

By preparing for and taking part in FIRST® LEGO® League Challenge tournaments in these settings, participants get a meaningful experience of the workplace, with time to prepare and reflect, and multiple opportunities to receive feedback on their work.



As part of a structured, progressive whole school careers programme, participation in the FIRST® LEGO® League Challenge can improve participants' career readiness and employability. Their experience can help them to make better informed career choices when the time comes.