



# FIRST® LEGO® League Ignites STEM Engagement

## Hands-On Classroom and After-School Programs

FIRST® LEGO® League guides youth through STEM (science, technology, engineering, and math) learning and exploration at an early age. From Discover, to Explore, and then to Challenge, students will understand the basics of STEM and apply their skills in an exciting competition while building habits of learning, confidence, and teamwork skills along the way.

Learn more about FIRST LEGO League by visiting [www.firstlegoleague.org](http://www.firstlegoleague.org).

### FIRST LEGO League Class Pack

FIRST LEGO League can be implemented through FIRST Class Packs, which includes curriculum for educators and facilitators to guide their students through 12 sessions as they explore STEM and robotics.

### FIRST LEGO League Studies

From 2018-2021, FIRST worked with WestEd<sup>1</sup> to evaluate the FIRST LEGO League Discover program. Goals of the evaluation included understanding the impact the program had on students and teachers. This evaluation was funded by the LEGO® Foundation.

From 2019-2022, FIRST worked with the Lawrence Hall of Science, UC Berkeley<sup>2</sup> to evaluate the FIRST LEGO League Explore and Challenge programs. Goals of the evaluation included understanding impact the programs had on students and teachers. This evaluation was funded by the LEGO Foundation.

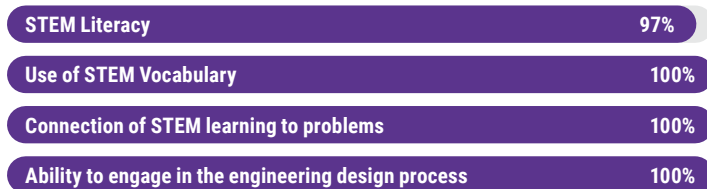


## Key Findings

Teachers and facilitators noted positive youth outcomes in core FIRST program areas, including:

### Students have gains in STEM Outcomes

#### FIRST LEGO LEAGUE DISCOVER



#### FIRST LEGO LEAGUE EXPLORE



#### FIRST LEGO LEAGUE CHALLENGE



*"The power of LEGOs during the school day was amazing. Students were the driving force behind helping teacher[s] understand the relevance of LEGOs and all content areas. It worked!"* – Teacher

### Students have gains in teamwork and problem solving

#### FIRST LEGO LEAGUE EXPLORE



#### FIRST LEGO LEAGUE CHALLENGE



Learn more at [firstinspires.org/impact](http://firstinspires.org/impact)

<sup>1</sup> Melchior, K., Tyler, B., Nguyen, K., Matlen, B. (2021). FIRST LEGO League Discover – Final Evaluation Report. San Francisco CA: WestEd. <sup>2</sup> Collins, M., Sanchez, A., Yun, S., Grindstaff, K. (2022). Evaluation of the FIRST LEGO League Explore and FIRST LEGO League Challenge Class Pack Model. Berkeley, CA: The Research Group, Lawrence Hall of Science.