



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.

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 WestEd¹ 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 Berkeley² 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.

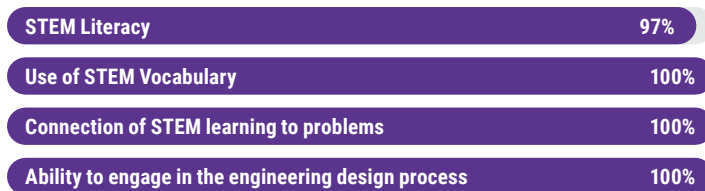


Key Findings

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



"[I liked] being able to work with a team and work with friends. We all get to work as a team and we all get chances."

– Explore Student

Students have gains in teamwork and problem solving

FIRST LEGO LEAGUE EXPLORE



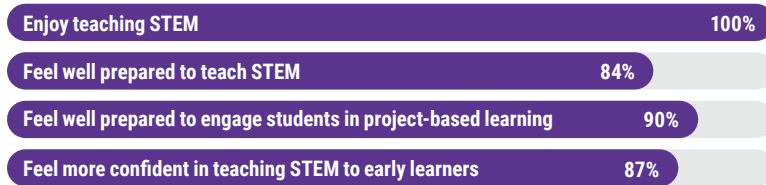
FIRST LEGO LEAGUE CHALLENGE



KEY FINDINGS CONTINUED

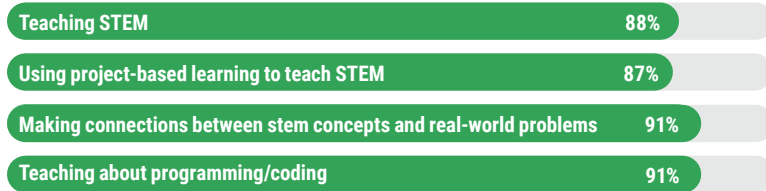
At the end of the program, teachers:

FIRST LEGO LEAGUE DISCOVER

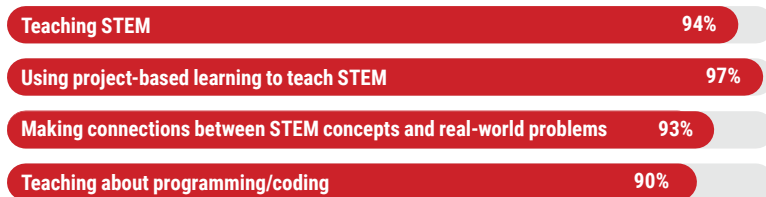


At the end of the program, teachers feel more confident in:

FIRST LEGO LEAGUE EXPLORE



FIRST LEGO LEAGUE CHALLENGE



“Developing the code...was the most interesting part of the program. Kids did like to build, but they really loved seeing how their code worked to solve a problem.”

— Challenge Teacher

Learn more at firstinspires.org/impact

1 Melchior, K., Tyler, B., Nguyen, K., Matlen, B. (2021). FIRST LEGO League Discover – Final Evaluation Report. San Francisco CA: WestEd. 2 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.

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