FIRST LEGO LEAGUE

CHALLENGE

Presented By
Hartford Union High School
1091 Robotics Team

Introduction to FIRST LEGO League Challenge

2:30-3:10

Why Join FIRST LEGO League?

Build New Skills

Increase Creativity

Improve Teamwork Skills

FIRST Philosophy

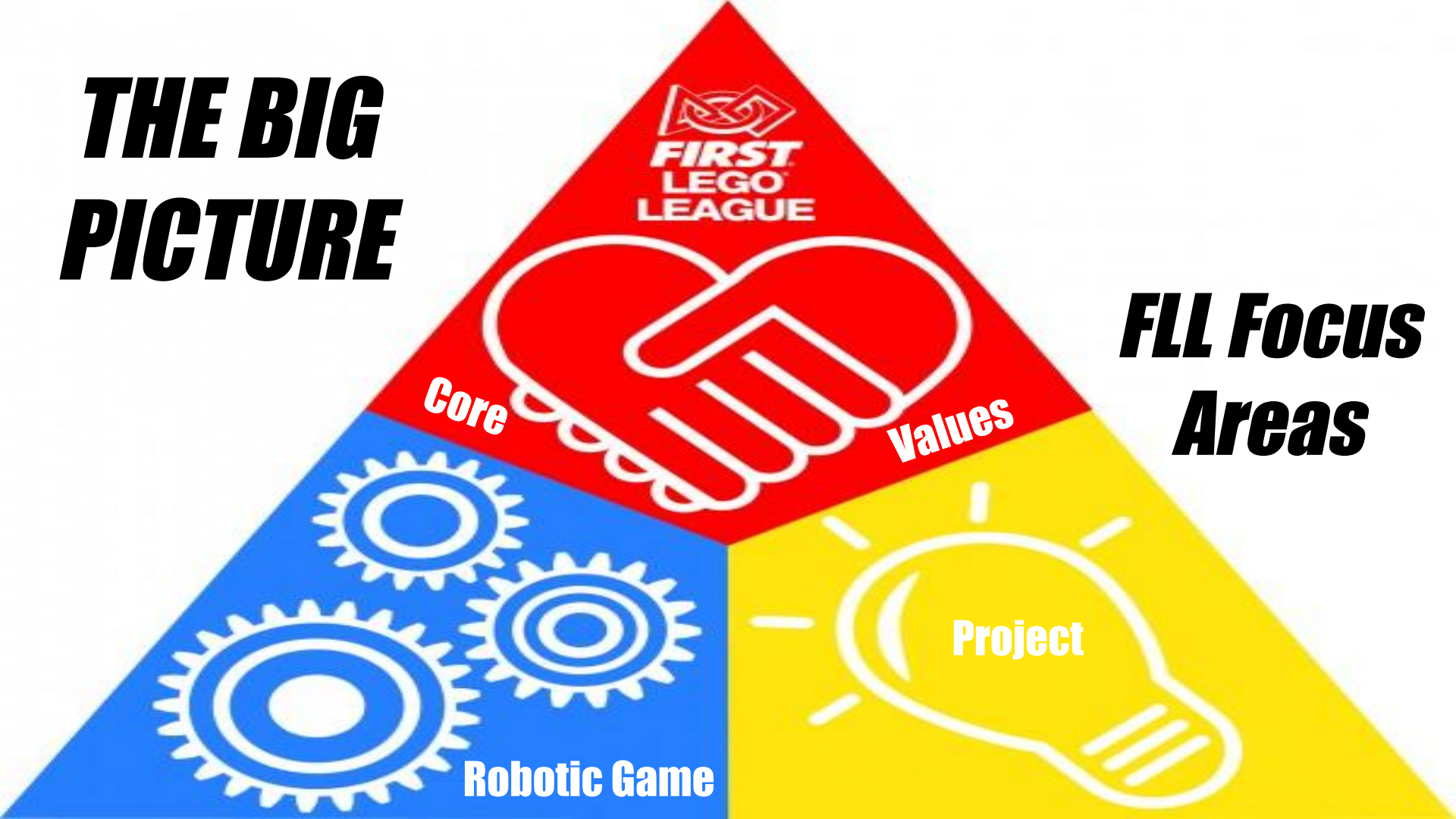
Gracious Professionalism

A way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.

Coopertition

Displaying unqualified kindness and respect in the face of fierce competition. Teams can and should help and cooperate with each other even as they compete.

THE BIG PICTURE



FLL Focus Areas

FIRST® 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!

Solve real world problems as you learn.

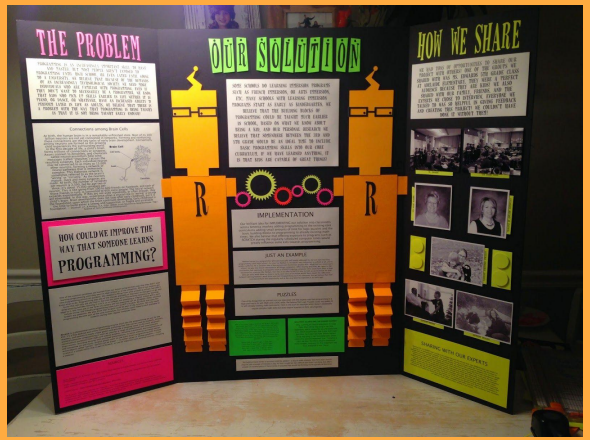
FIRST® LEGO® League Challenge (FLL Challenge) is an international program, created by *FIRST*® and LEGO®, designed to get children interested in and excited about science, technology and engineering through teamwork, robotics, and research.

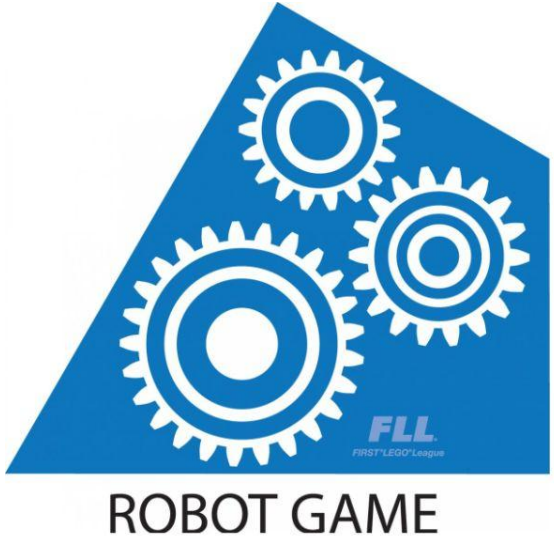
FLL teams work together to create a robot that can complete season tasks while adhering to certain constraints; as well as create an Innovation Project . These problems push teams to think outside the box through innovation and creation.

Experience:

- hands-on robotics design and scientific research
- high-energy, sports-like tournament events held November through March in the areas of robot design, robot game, innovation project and core values
- programming a LEGO robotics kit capable of completing tasks autonomously
- identifying a specific problem within a theme to solve. Then, creating or improving a piece of equipment, or a technology to solve the specific problem.
- creating a model or prototype of a solution to a real problem

FLL Project Presentations





Program & build a robot to complete challenge tasks at Tournaments.

Teams will have the opportunity to register for Qualifier Tournaments with other teams.

Teams complete three, 2.5 minute, robot rounds to get the best score possible. They also give a presentation about their innovation project and discuss their robot design and how they worked together as a team.

Additional Potential Competitions

Teams that attend a Qualifier event may advance to the State Championship event.

Teams advancing from the state event may be invited to international events and showcases.

Robot Game - Design & Build

Robot Game - Competition

PARTICIPANT COMMITMENT

During the Design & Build Season:

- will meet once per week the first few weeks
- mid-October thru mid-November may meet two or more times per week

During the Competition Season:

- will continue to meet once per week
- competitions will be on weekends (minimum 2 competitions)
- participant will need own transportation to competitions

WE NEED YOU!

To build a strong team, we need a strong team of volunteers. The FIRST Organization would not be what it is today without the talents and time of so many amazing volunteers.

Volunteer Areas

- ★ Mentorship
- ★ Business & Finance
- ★ Logistics
- ★ Membership
- ★ Social Media & Graphic Design
- ★ Technology

2022-2023 Season Sneak Peek

Important Things to Remember

- ★ Open to students in 4th - 8th grade from HUHS feeder schools
- ★ No registration cost for participant
- ★ Teams range from 2-10 players
- ★ Design/Build Season begins in mid-August
- ★ Competition Season begins in mid-November / ends in mid-March
- ★ Need Mentors & other Volunteers
- ★ Sponsors key to team creation
- ★ Team Contact FLL1091Robotics@gmail.com