



**FIRST LEGO League**



*Bringing Montessori Public*

**First Lego League Team #16053 Application  
2017 – 2018**



# FIRST LEGO League 2017- 2018

(For current 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup> grade students)



FLL is a program that promotes Science, Technology, Engineering and Mathematics

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## 3 Parts of FLL

The Project and the Robot Game  
are what the students do.  
Core Values are how they do it.

- Students design and program a LEGO MINDSTORMS Robot to solve missions on a special obstacles course.

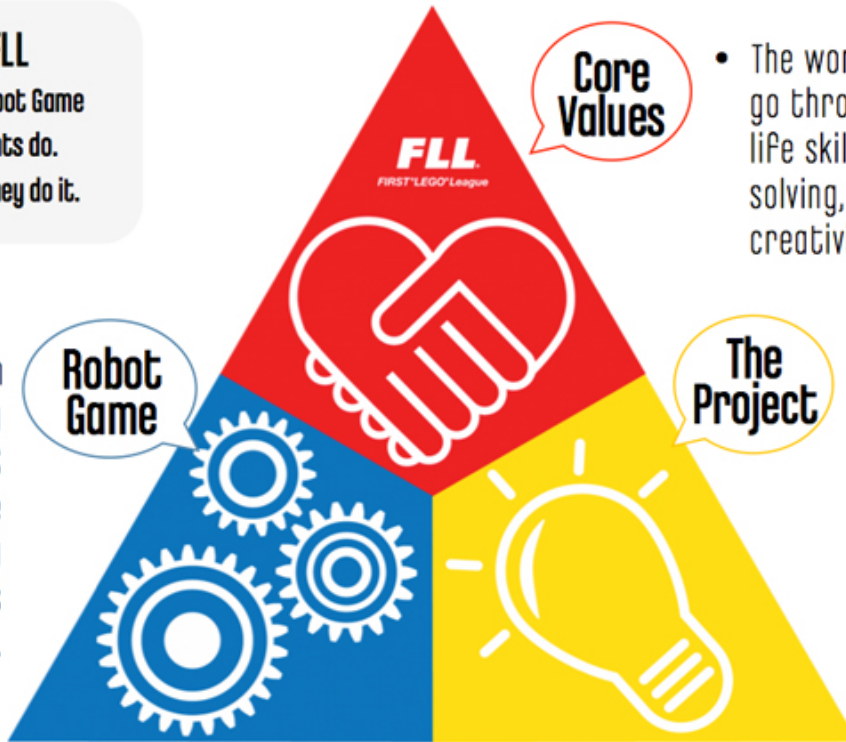
Robot  
Game

Core  
Values

- The work process the students go through to obtain important life skills such as problem solving, critical thinking, creativity, and team-work.

The  
Project

- A research assignment where students research and come up with innovative ideas for a defined, real-world challenge.
- The theme for 2014/15 is WORLD CLASS. (What is the future of learning?)



FLL is guided by two or more adult Coaches, *FIRST LEGO League*\* teams ( 6 members, ages 9-14) research a real-world problem such as food safety, recycling, energy, etc., and are challenged to develop a solution. They also must design, build, program a robot using LEGO MINDSTORMS® within a common set of rules to accomplish “missions” and then compete on a table-top playing field.



On your mark, get set, flow! Drink in the 2017/2018 HYDRO DYNAMICS<sup>SM</sup> season and learn all about water – how we find, transport, use, or dispose of it.

What might become possible when we understand what happens to our water?

**Registration** is \$150 per child. Please make checks payable to ‘Mill Falls Charter School’.

Returning team members will be rolled over automatically to the 2017/2018 season. Thereafter new registrations will be accepted on a first come/first serve basis. Payment can be made in either one payment of \$150.00 or two payments for \$75 (one payable with the registration and the final payable by June 8<sup>th</sup>). Please let us know if a family has any financial restrictions.

**Deadline:** Applications must be received at school by **Tuesday, April 18, 2017!**

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**Mandatory Information Session: Thursday April 20<sup>th</sup> from 3:00pm-4:15pm. All applicants and their parents are REQUIRED to attend. Parents please arrive promptly at 3:15pm.**

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# **FIRST LEGO League** - What to Expect

## **Lego Team #16053**

FLL is a major commitment. Teamwork is not just an essential part of FLL, but working together is how the FLL challenge is designed to be solved. The expectation is to have every team member at every team meeting.

## **Lego Team #16053 Preseason**

Beginning in April, the prospective team members will meet twice a week to discuss the upcoming project piece of the challenge. They will also practice construction of the robot, learn new techniques for using the robot sensors, as well as learn and practice their programming skills and the necessary associated documentation for those programs. This time also gives the team time to learn how best to work together and practice their core values while there is no looming deadline.

## **Lego Team #16053 Build Season**

Beginning in September, the team should expect to meet at a minimum of twice a week for 2-3 hours and up to every day if needed as the November deadline for the qualifying tournament approaches. If the team advances to the State level, schedule some time in December! The team will have approximately 2 weeks from the qualifying date in November to complete their preparations for that next level of competition.

## **2017-2018 Lego Team #16053 Basic Calendar and Schedule**

### **Preseason**

- Tuesdays & Thursdays  
May 2<sup>nd</sup> - Jun 8<sup>th</sup> from 3:00pm - 4:30pm at Mill Falls School
- Tuesdays or Thursdays – time and place to be determined  
June through August outside Mill Falls School

Team will begin administrative tasks, plan for the coming meeting, deadlines, practice core values, programming and skill building for the robot in preparation for the Build Season

### **Build Season:**

- September to November after school – Tuesdays, Wednesdays or Thursdays  
*\*Note: Times and days may be added to the above Build Season schedule if needed*

Please contact Celestia Lensky at [seegreet@yahoo.com](mailto:seegreet@yahoo.com) or Swati Gohel at [gohelswati17@gmail.com](mailto:gohelswati17@gmail.com) with any questions!

# Who has this Skill?

This exercise provides an opportunity to practice research, interviewing and asking questions which will be an essential part of the team's research when doing the project piece of the FLL challenge this year. Your child can do this at home, school or with their friends! Please complete and return this form with your application.

## Directions:

- Find anyone (adult or child) that has the skill.
- Get them to write their name on your paper.
- No one may sign your paper more than once!

1. Who has sung in front of a group of people? \_\_\_\_\_
2. Who can play a woodwind instrument? \_\_\_\_\_
3. Who can play the piano? \_\_\_\_\_
4. Who has built something out of wood? \_\_\_\_\_
5. Who has made something out of clay? \_\_\_\_\_
6. Who knows how to do a magic trick? \_\_\_\_\_
7. Who has baked a cake? \_\_\_\_\_
8. Who has played on a soccer team? \_\_\_\_\_
9. Who has gotten a strike in bowling? \_\_\_\_\_
10. Who can count to 10 in a foreign language? \_\_\_\_\_
11. Who has gone camping? \_\_\_\_\_
12. Who has a pet cat? \_\_\_\_\_
13. Who has a pet dog? \_\_\_\_\_
14. Who has had a haircut in the last week? \_\_\_\_\_
15. Who has had a broken bone? \_\_\_\_\_
16. Who has been in the White House? \_\_\_\_\_
17. Who has more than 3 children? \_\_\_\_\_
18. Who can stand on their head? \_\_\_\_\_
19. Who is wearing a pair of black shoes? \_\_\_\_\_
20. Who has read all the Harry Potter books? \_\_\_\_\_

# FLL Core Values

The *FIRST* LEGO League Core Values are the cornerstones of the program. They are among the fundamental elements that distinguish *FIRST* LEGO League from other programs of its kind. By embracing the Core Values, participants learn that friendly competition and mutual gain are not separate goals, and that helping one another is the foundation of teamwork.

- We are a team.
- We do the work to find solutions with guidance from our coaches and mentors.
- We know our coaches and mentors don't have all the answers; we learn together.
- We honor the spirit of friendly competition.
- What we discover is more important than what we win.
- We share our experiences with others.
- We display Gracious Professionalism® and Coopertition® in everything we do.
- We have FUN!

## Team #16053 Rules and Expectations

- You must always sign in and a parent must always sign you out
- Always respect other team members
- All ideas and solutions a part of and belong to the team
- Help others whenever you can
- Identify ways to encourage your team mates
- Everyone helps to set up and to clean up
- Learn, use and follow FLL Core Values and Montessori grace, courtesy and respect at all times
- FLL Computers will be used for FLL only
  - a) Team members may not play computer games
  - b) Do not download or install any programs on the computer.
- No horseplay in the work areas

Students are expected to follow the FLL Core Values and Montessori grace, courtesy and respect at all times. Students who deviate from these practices may be disqualified and asked to leave the team.

# First Lego League Team #16053

## Student Application

Name: \_\_\_\_\_

Age: \_\_\_\_\_ Current Grade: \_\_\_\_\_ Classroom Name: \_\_\_\_\_

Your LEGO Level (check all that apply)

- ☐ NXT or EV3 experience
- ☐ Technics experience
- ☐ Classic brick experience
- ☐ “What’s a Lego?”

Why do you want to join and what can you offer to the team?

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Please read and check off all you agree with

- ☐ I have read and understand the FLL Core Values and agree with them!
- ☐ I agree to follow all team rules and expectations as listed in the FLL Team #16053 Application
- ☐ I understand that FLL is a team effort and will do my best to contribute to the teams efforts
- ☐ I agree to have fun!

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# First Lego League Team #16053

## Parent Form

Please fill out a separate form for each child. Application(s) must be submitted to Mill Falls by **April 18, 2017**

Student Name: \_\_\_\_\_ Class: \_\_\_\_\_ Grade: \_\_\_\_\_

Parent Name: \_\_\_\_\_

Full Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Emergency Phone Number: \_\_\_\_\_

Email: \_\_\_\_\_ Does your child have any dietary restrictions? Y\_\_\_ N\_\_\_

If yes, please describe: \_\_\_\_\_

I understand that although the coaches and co-coaches do everything they can, parent participation and help is a requirement for all team #16053 members. As a volunteer, I agree to have my Mill Falls background check completed ASAP, preferably by April 20<sup>th</sup>. I can also help with the following:

- ☐ Becoming a FLL mentor or co-coach
- ☐ Provide transportation to and from meeting places
- ☐ Provide help by being present at meetings if needed
- ☐ Provide assistance with the research project (arranging meetings with experts in the field, props for the presentation etc.)
- ☐ Fundraising – For example, this can be accomplished by helping to set up or arranging meetings with companies who would be interested in supporting the Mill Falls FLL Team #16053 (materials and documentation will be provided).

Snack Calendar Schedule will be shared via Google Docs by May 2<sup>nd</sup>, 2017. Your child will be responsible for providing a snack for the whole team. Please notify us of any food allergies or restrictions.

In addition to meetings being held at Mill Falls, meetings may also be held outside of Mill Falls such as at the Manchester Public Library. If your child needs transportation please let us know along with your registration.

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Registrations are accepted on a first come first serve basis. The registration fee can be made either as a one time payment of \$150 or two payments of \$75 (with \$75 due with your registration and the other \$75 payable by June 8<sup>th</sup>, 2017). Please make checks out to Mill Falls Charter School. Please let us know if your family has any financial restrictions. Please contact Celestia Lensky at [seegreet@yahoo.com](mailto:seegreet@yahoo.com) with any questions or concerns.

- ☐ I understand that in signing my child up for this program that we are expected to follow the FLL core values and Montessori grace, courtesy, and respect at all times. I also acknowledge that I will be volunteering to assist my child's team and understand the time commitment involved.

Parent Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*\*Please notify us of any special circumstances or accommodations prior to submitting your application. Thank You.*