

St. Clare's Science Enrichment

F.I.R.S.T. LEGO League Junior

A team-building experience for students in Grade 4

St. Clare Junior LEGO Engineers are transforming the world one LEGO at a time!



2016-17 Theme – Creature Craze

Swing like a monkey, fly like a bat, or hop like a frog into the FIRST® LEGO® League Jr. CREATURE CRAZESM season.

Whether in zoos, on the farm, or in your own back yard, we all encounter animals in our lives.

In the 2016-2017 CREATURE CRAZE Challenge, over 40,000 children will dive into the wonders of the animal kingdom.

What will you learn about our furry, feathered, and finned friends?

*****Student Orientation and Parent Meeting - Monday, September 19*****

Students will meet from 2:30-4 – Parent Meeting from 4-4:30

*****Regular sessions start September 26*****

Students will meet 2:30-4:30 each Monday through December to create their models, posters, presentations.

We will be regrouping in the new year to prepare for a school and citywide showcase.

Overview: The FLL Junior program is a research-based designing and building challenge. It will take the place of science project but members will still need to do their own independent research paper for their 4th grade teachers on the topic. Students will be doing some research work at home as well as with teachers at the sessions. The building of the models and the assembling of the posters and speeches will be done at sessions. Students will be graded on their work (attendance and effort will be factored in). Students will be assigned to teams. They will be expected to present their work at showcase events at school and in the city.

NOTE: This program is not to be confused with our Minor robotics program which involves robot competitions in spring.

Main program facilitators: Mrs. Lee, Mrs. Miller, Mrs. Vautrinot, Mrs. Bonavita, older student helpers

Team Meetings

- **Building sessions:** Mondays – 2:30-4:30
- **Dates:** Sept. 19 (w/parent meeting at 4), Sept. 26, Oct. 3, 17, 24, Nov. 4, 14, 21, 28, Dec. 5, 12, 19
- **Regrouping sessions/presentation practice** – tentatively Jan. 9 and 24 (TBD)
- **Showcases:** St. Clare robotics project showcase will be the night of Feb. 1 at school. There will also be a citywide – TBD

Pickup from sessions: Sessions will be 2:30-4:30 p.m. in Science Lab. Homeroom teachers will dismiss to lab at end of school day.

Pickup will be at the cafeteria or lab door in the main school yard; cars not permitted in lot at pickup for safety reasons.

Children can be dismissed to Aftercare if noted.

Snack and drink: Students are encouraged to bring a healthy peanut-free snack and drink! We do not wish to allow students to use the vending machines as they are not always reliable.

Cost: \$250 – includes registration fees with FIRST, building and presentation materials, team shirts (students will wear the shirts with their blue school sweat pants and white sneakers), showcase items, etc. All charges to be applied to SMART Tuition. We will apply charges in increments. (Children in this program will receive a discounted rate for Minor Robotics if they do both).

Volunteer requirement– To help keep program affordable, we ask a parent or a representative assist at two Munch a Lunch/Brunch events no matter how many programs your child is enrolled. Proceeds benefit the teams and the school. (Dates below)

Program Goals

Junior *FIRST*® LEGO® League (Jr.FLL®) captures young children's curiosity and directs it toward discovering the wonders of science and technology. This program features a real-world scientific concept to be explored through research, teamwork, construction, and imagination. Guided by adult coaches, teams use LEGO® bricks to build a model that moves and develop a *Show Me* Poster to illustrate their journey.

Children get to:

- ✓ Design and build a challenge-related model using LEGO® components
- ✓ Create a *Show Me* Poster and practice presentation skills
- ✓ Explore challenges facing today's scientists
- ✓ Discover real-world math and science
- ✓ Begin developing teamwork skills
- ✓ Choose to participate in expos and showcases
- ✓ Engage in team activities guided by [Jr. FLL Core Values](#)



Junior FLL Core Values:

- We are a team.
- We do the work. Our coaches and mentors help us learn, but we find the answers ourselves.
- We share our experiences and discoveries with others.
- We are helpful, kind, and show respect when we work, play, and share. We call this Gracious Professionalism®
- We are all winners.
- We have fun.

Munch a Brunch/Lunch Dates (fundraising)

1. 9/30/16 (FRI) - Grades 1-4
2. 10/12/16 (WED) - Lunch – Grades 5-8
3. 11/18/16 (FRI) – Lunch - Grades 1-4
4. 11/29/16 (TUES) - Lunch – Grades 5-8
5. 12/23/16 (FRI) – Brunch – Grades 1-4
6. 2/2/17 (WED) – Brunch K-4
7. 2/24/17 (FRI) – Brunch - Grades 5-8
8. 3/21/17 (TUES) - Lunch - Grades K-5
9. 5/5/17 – Brunch – Grades 5-8
10. 5/18/17 – Lunch – Grades K-4

Main contacts

- Program Information - Mrs. Mary Lee - mlee@stclaresi.com (School phone: 718-984-7091)
- SMART Tuition charges - Gerri Smith - gsmith@stclaresi.com (Rectory phone: 718-984-7873)
- Munch and Brunch/Lunch (dates) – Jessica Bonavita – jbonavita@stclaresi.com (School phone: 718-984-7091)

More information

- See overview of this year's challenge on next page.
- For additional information on Junior FLL, visit web site below: <http://www.usfirst.org/roboticsprograms/jr.fll>



Creature CrazeSM

In the 2016–2017 FIRST® LEGO® League Jr. Challenge teams will:

- Choose an animal that lives within the same habitat as a honey bee.
- Learn about the animal and its habitat.
- Show what you learn through a LEGO® model and Show Me poster.



Hi, I'm **Elisa** the honey bee! I'm so excited to lead you through the CREATURE CRAZESM season. Come along to learn about the wonderful world of animals!

www.firstlegoleaguejr.org

FIRST® LEGO® League Jr. CREATURE CRAZESM Challenge

Coaches will guide teams through the Explore it, Create It, and Share It phases of the Challenge.

Explore It!

Start by learning about honey bees like me, Elisa, using your Inspire set for Inspiration. Explore our habitats. Find out why we are important.

Then choose an animal that shares one of our habitats. Learn as much as you can about your selected animal and its habitat. Do honey bees or your animal face any challenges in their shared habitat? If so, can you think of any solutions?

Will you swing like a monkey? Fly like a bat? Or hop like a frog? It's up to you!

Create It!

Build a LEGO® model that shows your animal, the Inspire set, and a honey bee living in the same habitat. Use the model to show what you have learned. Be sure to use a LEGO® motor to make at least one part of your model move.

Create a *Show Me* poster. Your poster will help you teach others about what you have learned. It should tell about your research, your animal, your model, and your team.

Share It!

There are many ways for your team to share what you have learned. You could:

- Hold an open team meeting. Invite your family, friends, and others. Present your LEGO® model and *Show Me* poster.
- Participate in a FIRST® LEGO® League Jr. Expo. You will talk with volunteers called "Reviewers" and other teams. You will share what you have learned and created during the CREATURE CRAZESM season.
- Share your work on the FIRST® LEGO® League Jr. Online Showcase.

No matter what you do, have fun!



FIRST
LEGO
LEAGUE JR.



education

St. Clare's Junior FIRST LEGO League

For students in Grade 4

Keep the cover sheet for reference. Submit only this sheet.

Student's name _____ Class _____ (pls. specify 4-1 or 4-2)

Street address _____ Zip _____

Parents' names _____

Home phone number _____

Other (Work/Cell numbers) _____

Parent's e-mail address (needed for group emails) _____

Emergency contacts (Please provide at least one in case parents cannot be contacted.)

Special considerations (health and medications, dismissal plans, team placement, etc.)

Munch a Brunch/Lunch Dates (fundraising)

To help keep team fees affordable, we run the Munch a Lunches and Brunches. We ask that you or a representative volunteer at two of these events. Please check any dates you can help:

Munch a Brunch/Lunch schedule

___ 9/30/16 (FRI) - Grades 1-4

___ 10/12/16 (WED) - Lunch – Grades 5-8

___ 11/18/16 (FRI) – Lunch - Grades 1-4

___ 11/29/16 (TUES) - Lunch – Grades 5-8

___ 12/23/16 (FRI) – Brunch – Grades 1-4

___ 2/2/17 (WED) – Brunch K-4

___ 2/24/17 (FRI) – Brunch - Grades 5-8

___ 3/21/17 (TUES) - Lunch - Grades K-5

___ 5/5/17 – Brunch – Grades 5-8

___ 5/18/17 – Lunch – Grades K-4

Note – All food will be from Burger King. Brunches run from approximately 9-10. Lunches run from approximately 10:45-11:45. Parents should come earlier to set up and remain after to clean up. If a family has more than one child involved on science teams, they only need to do two days total. Any problems, please discuss with Mrs. Lee.

***Coordinator is Jessica Bonavita at jbonavita@stclaresi.com in case availability changes.

T-shirt Ordering information

Child's T-shirt size: **Child Medium** **Child Large** **Child XL** **Adult Small** **Adult Medium**

IMPORTANT! This registration form should be submitted no later than September 16 so we can plan accordingly. Students can give to homeroom teachers and Mrs. Lee will gather the forms from the teachers. No payment is to be submitted with registration form. Charges will be applied to SMART Tuition. **If parent is not able to attend the orientation on SEPT. 19, please send a representative.** This is considered a team and involves a commitment. Furthermore your child will be given a science project grade. We need to communicate our expectations. Thank you.