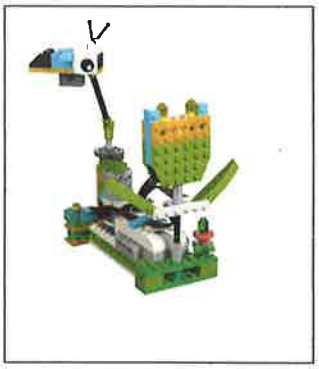


WEDO 2.0

ROBOTICS CHALLENGES for Kids

EV3

ASCS ROBOTICS CLUBS

Wednesdays afterschool from 2-4:15 PM Starting September 12th

Students completing 8 days for either clubs will be **eligible** for First LEGO Competitions **next semester.**

***Grade 1-2-3** Students will utilize many of the **We Do 2.0** LEGO designed STEM activities to learn how the study of robots can help communities to move heavy objects, to create flood gates, to rescue people in high risk areas, to improve the speed of racecars, to design earth quake proof houses, and many other robotics applications **(Mr. Cook Instructor mr.cook@ascs.net)**

***(This year's Kindergarten students will be eligible for the 2019 spring session) ***

Grade 4-8 Students will use the LEGO MINDSTORMS **EV3** advanced robotics LEGO building system, combined with the versatility of the most advanced technology ever developed, to provide students with the creative powers of the new EV3 Robot set to create and command robots that walk, talk, think and do anything you can imagine. Following step-by-step 3D building, students will use instructions to create and bring EV3 robots to life with an easy, intuitive and icon-based programming interface. **(Mr. Xavier Guzman Instructor xaviguzr@gmail.com)**

All ASCS Robotics Club members will utilize new LEGO sets and IPAD remote controls to identify/research real-life problems, brainstorm solutions to the problems, build and program robots to command the robot to solve WeDo2.0 and EV3 program/ instructor created challenging activities which teaches all students 21st century skills ...

Critical thinking, Communication, Collaboration and Creativity.

2018 Fall SCHEDULE

Wednesdays September 12/26 October 3/10/17/24 November 7th/14th

November 14th -Student Created Robotics Demonstrations for Parents 2:30PM-3:30PM ASCS

3:15-3:30 Snacks will be provided

4:15 Pick-Up

STUDENT _____WEDO CLUB_____ EV3 CLUB_____ PRESENT GRADE 1 2 3 4 5 6 7 8 (Circle)

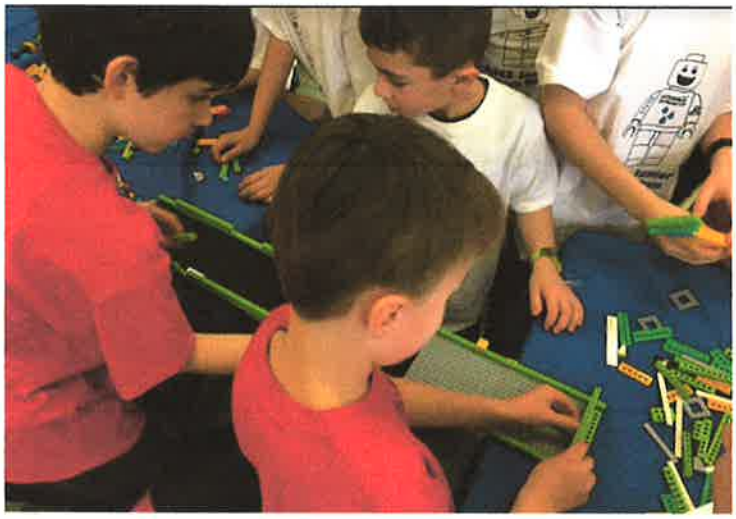
PARENT _____ EMAIL _____

MOBILE PHONE_____ EMERGENCY CONTACT PERSON/PHONE _____

Registration Fee Due September 7th. Complete the Club application and return to main office with $175 fee...Checks made out to ASCS Robotics. **NOTE**: Students who have been in the EV3 Club and do **NOT** wish to join the senior league **MAY** continue in the EV3 CLUB...in this case submit this EV3 CLUB application.

8/18

FIRST LEGO LEAGUE JR.



All Saints Catholic School introduces an EXPO Robotics competition team program to start September 13th and continue for 8 weeks on Thursdays from 2-4:15 pm. Students in grades 1-3 *who have been part of We Do 2.0 last year with Mr. Cook* are eligible to apply.

NOTE: Students in grades 1-3 who do NOT want to join the Junior League MAY stay in the WEDO CLUB IF they wish and will submit the WEDO CLUB Application.

http://www.firstinspires.org/robotics/filjr

Every year, *FIRST*® LEGO® League Jr. works with experts in the field to create a **Challenge** that relates to an important real-world issue. Past Challenges have been based on topics such as nanotechnology, climate, quality of life for the handicapped population, and transportation. The end result of the design process is a Challenge with two defined parts – the ***Show Me*** **Poster** and the **Model** where the team will compete with other teams from across Connecticut in an Exposition held at All Saints Catholic School. The 2018-2019 Challenge is **MISSION TO THE MOON!**

Show Me **Poster-**The *Show Me* Poster requires teams to illustrate their research and team journey. It provides an opportunity for them to share what they studied, what they learned, and to show information about the team and each team member.

Model-The Model gets teams moving! Teams build a representation of what they are researching, based off the Challenge, and incorporate simple machines and movement into their creation.

- Create a Model that fits within a 15" x 15" footprint.
- Design a Model made of LEGO® parts. Typically, a team of six will use 400 to 1,000 LEGO parts during the season.
- Must have at least one motorized piece on the Model.
- Create a simple machine using LEGO ramps, levers, pulleys, gears, wheels and axles, screws, or wedges and incorporates this into their model.
- ASCS EXPOSITION- Connecticut Schools Competition to be scheduled for a Saturday in 2019.

It's never too early to discover STEM. *FIRST* LEGO League Jr. is designed to introduce STEM concepts to kids ages in grades 1-3. Please register as soon as possible as the enrollment fills quickly.

Student_____ 2018-2019 Grade 1 2 3 (circle) Emergency Phone_____

Parent _____ Email address_____

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Junior LEGO League Students will attend 8 meetings Thursdays 2-4:15 PM Sept 13/20/27 - Oct 4/11/18/25- Nov 1st

Parents are invited to class on Nov 1st 2:30-4:30 PM Registration Application is due to the ASCS Office on or before September 7th with $175 fee. Make checks out to ASCS Robotics

All Saints Catholic School introduces a Robotics Competition Team program to start Thursdays September 13th and continue for 8 weeks on from 2-4:15 pm. Students in grades 4-8 *who have been part of EV3 with Mr. Guzman* are eligible to apply.

NOTE: Students who have been in the EV3 Club last year and do NOT wish to join the Senior League MAY continue with the EV3 CLUB...Submit the EV3 CLUB application.

ASCS SENIOR FIRST LEGO LEAGUE TEAMS:

- Research challenges facing today's scientists
- Design, build, test and program robots using LEGO® MINDSTORMS® technology
- Apply real-world math and science concepts
- Learn critical thinking, team-building, and presentation skills
- Participate in tournaments and celebration.

FIRST LEGO League teams (entering grades 4-8), 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®, and then compete on a table-top playing field. Proven, verifiable impact! The 2018-2019 Challenge is **MISSION TO THE MOON!**

The positive impact *FIRST* LEGO League has on participants is gratifying and well documented. Over 88% are more interested in doing well in school, and 87% have more interest in attending college. FIRST LEGO TEAMS:

*Research challenges facing today's scientists Design, Build, Test and Program robots using LEGO MINDSTORMS technology.
*Apply real-world math and science concepts. Learn critical thinking, team-building, and presentation skills.
Participate in competitions with other Connecticut Schools

Student _____Homeroom____ Present Grade 4 5 6 7 8 (circle)

Parent _____ Email address_____

Mobile Phone _____Emergency Person/ phone contact _____

Please Register by returning this application AS SOON AS POSSIBLE to indicate your children's interest in the competition team. ASCS has already received applications and will be meeting to plan the challenge as soon as school begins.

Registration Fee of $175 is due on or before September 7th.

Formal meetings start Thursdays 2-4:15 PM Sept 13/20/27 - Oct 4/11/18/25- Nov 1st

FIRST LEGO LEAGUE

8/18