

FIRST Curriculum

Guidebooks: *FIRST*® LEGO® League Jr.

- **Team Meeting Guide** - This guide provides Coaches and teachers with complete instructions on how to administer the *FIRST*® LEGO® League Jr. program. It outlines 12 sessions providing 12-16 hours of guided activities for teams.
- **Engineering Notebooks** – Student notebooks designed to introduce students to the Engineering Design Process and complement the Team Meeting guide.
- **Administrator Guide** - This guide will help an administrator get the *FIRST* LEGO League Jr. program up and running, manage their Coaches and put on their own Expo for teams.



FIRST® Steps: *FIRST*® LEGO® League

FIRST® Steps is a series of modules that guide new Coaches and teachers through their initial season with *FIRST*® LEGO® League. It is a step-by-step, meeting-by-meeting framework that allows Coaches and teachers with no previous experience to lead a robotics team through a successful first season. *FIRST* Steps will be facilitated by veteran Coaches and *FIRST* program staff who will also lead a monthly webinar on topics of interest. The new modules will provide skill-building, off-season content like the *FIRST*® Tech Challenge curriculum, and will be delivered through the learning management system.

FIRST Steps includes:

- An Introduction to *FIRST* LEGO League.
- A Preseason Preparation module.
- Eight meeting modules divided into the following topics:
 - **Inspiration** focuses on teamwork and decision making strategies using our signature Core Values.
 - **Project** focuses on the Challenge topic, defining a problem and creating an innovative solution.
 - **Robot** focuses on robot design and programming.
 - **Debrief** allows time to reflect on what has been accomplished.
 - **Field Research** gives students the opportunity for independent thinking and research between team meetings.
 - **Other Tasks & Tips** advises coaches about other ways teams will need support, getting parents involved, and administrative responsibilities.
 - **Next Time** gives Coaches a preview to the next module and team meetings.

Re-Engineering the Classroom with *FIRST*® Class

FIRST® Class is a curriculum that provides authentic, real-world learning to students by bringing *FIRST* Tech Challenge into the classroom. The curriculum is designed to be a stand-alone robotics/programming/engineering course for grades 7-12 but also follows a timeline to allow students to be competition ready if they choose. Off-season curriculum is designed to strengthen students' 21st Century Skills, coding, and engineering practices. *FIRST* Class is delivered through a learning management system and is supported by a very active community including *FIRST* Staff and veteran Coaches/educators.

Performance based assessments include:

- Technical writing through documenting the students' engineering design process in an Engineering Notebook.
- Design of the robot.
- Coding using a block-based or pure Java language.
- Robot performance of specified tasks and/or robot performance in competition.

Need more information or have questions? Send us an email: FIRSTeducation@firstinspires.org
Learn more about *FIRST*® at www.firstinspires.org