WE FIRST LEGO LEAGUE (FLL)

4TH – 8TH GRADE

INFORMATION SESSION

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INTRO TO FIRST / FLL

FIRST (founded 1989)
For Inspiration and Recognition of Science and Technology

Dean Kamen, prolific inventor & entrepreneur
(Segway, Luke Arm, Slingshot H2O purification system, iBOT mobility System, DEKA)

Woodie Flowers - MIT Prof.

FIRST FRC
FTC
FLL / Jr. FLL
FIRST IS ROBOTS AND..

Culture

• Coopertition®
• Gracious Professionalism®
• Respect

Promotes Science, Technology, Engineering, Math (STEM) as...

• Exciting Sporting Event
• Life Long Learning
• Enriched Experience
WHAT IS FIRST?

https://youtube.googleapis.com/v/i1QyM9WTF18?hl=en_US
WHY JOIN FLL?

Core Values

Project

Robot

Starting a Business =
logo, vision or mission statement,
what team values, community service

Engineering Design
Process = design, build, programming

Design = Capstone notebook, learning experience about theme
2015 THEME

ROBOT MISSION PROJECT

Coming August 25, 2015 (12:00pm EDT)
TEAM RULES

• Minimum of two (2) and a maximum of ten (10) children.

• Team with more than ten (10) children will not be eligible for awards at an official FLL tournament.

• Children may be members of only one (1) FLL team per season.

• No team member may be outside the maximum allowed age in your region prior to January 1 of the year the Challenge is released.

• Two coaches per team

• http://firstlegoleague.org/challenge/participationrules#sthash.mxMGwrYx.dpuf
ROBOT MISSION REQUIREMENTS

2.5 minute mission challenge to acquire as many points as possible!

Impossible to get everything (FIRST does this ON PURPOSE)

Have three attempts to score the most points at the challenge

Team presentation on robot design / programming / and mission strategy

Team needs information sheet / notebook for documentation and robot executive summary / poster (optional)
WWW.USFIRST.ORG

NXT Tutorial
http://www.stemcentric.com/nxt-tutorial/

Kid-Produced Overview to the EV3 Programming Environment
http://www.youtube.com/watch?v=QsksyDPrNkQ

EV3 Tutorial
http://www.stemcentric.com/ev3-tutorial/
Tips for Teams - Calendar Planning

- Leader Responsibilities — three areas for FIRST documentation
- Deadlines or projected deadlines for work — make the participants think of these!
- Homework assignments
- Plan first three meetings!
- First meeting = introductions, discuss three parts, kids select team roles or interests, build props.
Tips for Teams - Success Means . . .

- Commitment from team members to do their best
- Do ALL THREE areas well!
- Effort = Return *most successful teams meet daily and on weekends
- Kid Run – team members lead team (not adults)
- Coaches/Mentors/Parents – let kids make mistakes and learn on their own!
- Parental Participation and Gracious Professionalism noticed during competitions!
ANY QUESTIONS?

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