

# 2011 Lego League



MACQUARIE  
ANGLICAN

## Macquarie Anglican Church

Macquarie Anglican is a Christian community committed to an evangelical and Anglican expression of the Christian faith. We believe in the truth of the Bible, the saving power of Jesus Christ, building one another up in a relationship with Him, and to telling the world about Jesus. Some of us are still investigating a relationship with God; some of us are new Christians, and others have known Him for a long time.

Macquarie Anglican is happy to serve our community by creating these LEGO League teams. We hope the 'lego based' community we form during this competition will provide opportunities for you and your kids to connect with our church community and through that find out more about Jesus.



## FIRST LEGO League

FIRST (For Inspiration and Recognition of Science and Technology) LEGO League is a powerful program that engages children in playful and meaningful learning while helping them discover the fun in science and technology.

At its core, FLL (FIRST Lego League) is a competition where teams are asked to design and engineer an autonomous LEGO robot, which can accomplish missions set by FLL. Teams need to research, build, and experiment, and by doing so, they live the entire process of creating ideas, solving problems, and overcoming obstacles, while gaining confidence in their abilities to positively use technology. The Teams will need to 'think outside the box' to solve all the challenges presented. Its a great introduction to real world technology problems, in a fun, safe and supportive environment. Over 140,000 children in 56 countries are currently active in FLL.

At Macquarie Anglican we host 3 LEGO League teams. Teams are composed of up to 10 kids, aged 9-16. We meet weekly for 9 weeks between the 7th September and the 5th November. On the 5th of November there is an all day tournament at Macquarie University. Over 60 teams from all over NSW and Australia gather to compete, present, learn, and have a great time. The atmosphere is usually electric, and it is certainly a unique experience.

## Meeting Times & Dates

In 2011, teams will meet weekly for 2 hours every Wednesday night (6pm - 8pm) at Macquarie Anglican, 114 Lovell Rd Eastwood. During an average 2 hour session, teams will research and design their robot (using LEGO Technics, LEGO Software, LEGO Mindstorm Robotics, and various other technical bits and pieces), participate in an additional research project, play some teamwork games, hear some teaching from the Bible (all told using LEGO of course!), eat some supper and have a great time!

The schedule for 2011 is as follows:

Date	Activity
31st Aug, 7pm - 8pm	Information Night
7 <sup>th</sup> Sep, 6pm - 8pm	Meeting 1 - Kit building & Robot training
14 <sup>th</sup> Sep, 6pm - 8pm	Meeting 2 - Robot training
21st Sep, 6pm - 8pm	Meeting 3 (School Holidays)
28th Sep, 6pm- 8pm	Meeting 4 (School Holidays)
5 <sup>th</sup> Oct, 6pm- 8pm	Meeting 5
12 <sup>th</sup> Oct, 6pm- 8pm	Meeting 6
19 <sup>th</sup> Oct, 6pm- 8pm	Meeting 7
26 <sup>th</sup> Oct, 6pm- 8pm	Meeting 8
2 <sup>nd</sup> Nov, 6pm- 8pm	Meeting 9
5 <sup>th</sup> Nov, ALL DAY	Tournament @ Macquarie University
9 <sup>th</sup> Nov, 6pm - 8pm	Celebration Dinner, Highlights Video, Awards Presentation

## FLL Theme & Bible Teaching



Every year, FLL is themed to address a different area of society. This years the FLL theme is Food Factor. In the Food Factor Challenge, teams will explore the topic of food safety and examine the possible points of contamination our food encounters - from exposure to insects and creatures, to unsterile processing and transportation, to unsanitary preparation and storage - then find ways to prevent or combat these contaminants. In the Food Factor Challenge,

teams will build, test, and program an autonomous robot using LEGO® MINDSTORMS® NXT to solve a set of Food Safety missions as well as research, develop, and share their innovative food safety solutions. In line with this, our teams will spend a little bit of time each night looking at what the Bible has to say about our food (yep - it does talk about food!) and how knowing Jesus is just as important as eating dinner each night! (all using LEGO of course!).

## Coaches

A core team of volunteers from Macquarie Anglican form the basis of our coaching team. These are just ordinary people (often a little nerdy), who are interested in helping kids to grow and change. We welcome parents to stay and assist each night. The more the merrier! Some parents are also involved in a more official capacity, and will coach the kids each week and at the tournament.

## Cost

Unfortunately, a LEGO League team is not cheap to run. Each team needs help cover the costs of the LEGO Mindstorm NXT Robots, Team Registration Fees, challenge sets, batteries, team T-Shirts and additional Lego. These costs are covered by each child paying \$90 for the whole season.

This fee can be paid as either as one payment (\$90) in cash (or cheque made out to “Parish of Macquarie”) on the first night. Alternately, we will accept partial payments spread over a few weeks.

---

## Registration

Would you like to register your child? Registration will be limited to 30 Children (due to team size restrictions) so be quick! Participating children are required to complete and submit a number of Registration Forms by the 7th September. These include a Macquarie Anglican Registration Form, a Macquarie University release form (for participation in the Tournament), and a FIRST release form (for participation in the competition). The information on these forms enables us to keep in contact throughout the competition, and receive permission to take action in emergency situations.

---

## Contact

### Web:

[www.macquarieanglican.org/lego](http://www.macquarieanglican.org/lego)

### Church Office:

Ph: (02) 9805-1936

Email: [office@macquarieanglican.org](mailto:office@macquarieanglican.org)

### FIRST LEGO League Coordinator:

Tim Adams - Children's Minister

Ph: (02) 8064-2470

Mob: 0409-512-039

Email: [tim@macquarieanglican.org](mailto:tim@macquarieanglican.org)