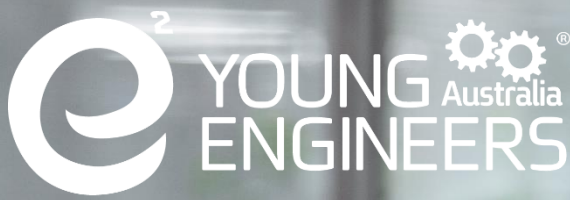
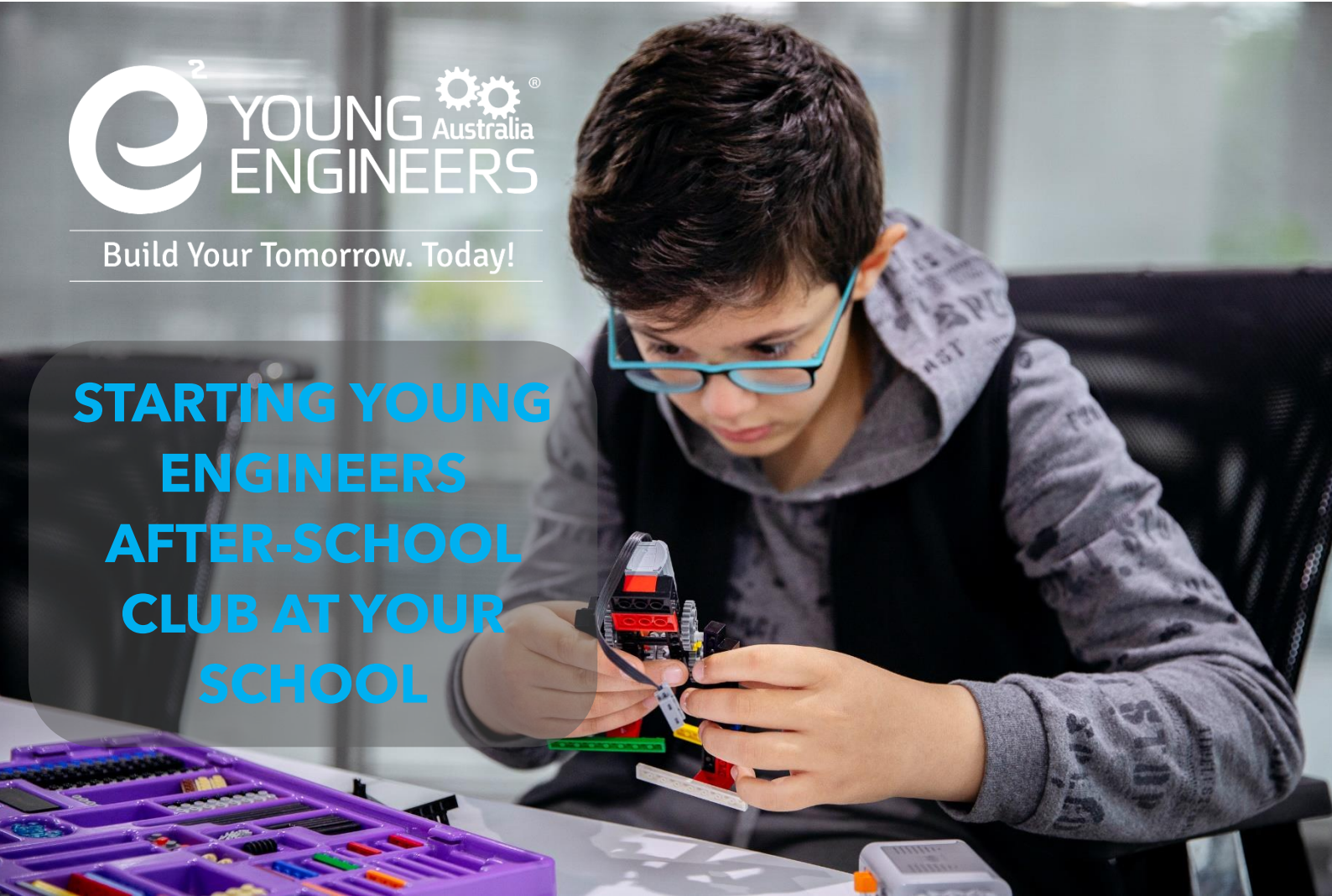


Education + Entertainment = edutainment



Build Your Tomorrow. Today!

STARTING YOUNG ENGINEERS AFTER-SCHOOL CLUB AT YOUR SCHOOL



Our Mission

Ignite children's passion for **innovation** and **creativity**, by providing hands-on independent learning experiences that leads to positive changes in our society.

Our Methodology

We use elements of story-telling, hands-on demonstrations and our specially designed Lego kits to provide students with authentic hands-on STEM experiences.

The **Lego® & Electronics kits** we use have been optimised for:

- Pre-Primary to year 7 students
- Inclusive education with minimal barriers (language literacy is not required)
- Classroom efficiency - we spend little time setting up & packing up, meaning more learning time.



$$\text{Education} + \text{Entertainment} = \text{Edutainment}$$



What We Provide

- Curriculum - we use our own proprietary Young Engineers curriculum and lessons to ensure a highly engaging experience.
- Equipment - we bring all equipment necessary for each and every class.
- Educators - we supply all educators (inspiring, smart & love working with kids).
- Payment & Registration - we handle all registration and payment so that your administration staff don't need to do a thing.
- Insurance & WWC - we hold our own insurance policy and all staff hold working with children's cards.
- Invisibility - we aim to leave the venue in a spotless condition. No one will ever know we've been there.

How the School can help

- Room(s) - weekly use of a classroom (library, science/art room are also suitable) with tables, chairs & whiteboard with capacity for up to 24 children.
- Our classes typically start 5 minutes after school ends.
- Sessions run for 75 minutes
- Parent Communication (Newsletters) - either electronic or paper-based methods to distribute flyers to relevant parent groups.



Education + Entertainment = Edutainment



Partner Schools (Past and Present)

- Subiaco Primary
- Jolimont Primary
- John XXIII College (Primary)
- North Perth Primary
- Mel Maria Catholic Primary
- Mt Claremont Primary
- Rostrata Primary
- Tuart Hill Primary
- Wesley College
- Rosalie Primary
- Wembley Primary
- Willetton Primary
- Scotch College
- St Peter's Primary
- Osborne Primary
- Mt Lawley Primary
- ... and many more

Corporate Partners



SOUTHERN METROPOLITAN
REGIONAL COUNCIL



Education + Entertainment = e²dutainment

Programs and Syllabus to cater Pre-Primary to Year 7 Students



BRICKS CHALLENGE



BIG BUILDERS



ROBO BRICKS



GALILEO TECHNIC



ROBOTICS

Example of a syllabus for one term

1	Pirate Ship	An unstable structure in comparison to a stable structure.
2	The Lever Principle	The lever principle - fulcrum, effort arm, load, arm, torque.
3	Industrial Mixer - Cake!	Gear transmission.
4	Drumming Machine	Belt transmission, converting circular motion to linear motion.
5	Cable Car	Power increasing transmission (Belt).
6	Radio	Electrical Circuits, build a working radio using real electrical components.
7	Catapult	Kinetic energy, potential energy, elastic energy.
8	Ferris Wheel	Centrifugal force, centripetal force, anti-symmetry, vibration and stabilising the ride
9	Amusement Park Carousel 2	Centrifugal force, centripetal force in a linear motion.
10	Challenge Week	Implementation of subjects.

Prices for each term (subject to change):

8 Sessions - \$245

7 Sessions - \$220



In the News

Lego fever hits schools across Perth

More than 100 Canning primary school students were learning about basic engineering principals using a childhood favourite toy.

Year two to four students at Bannister Creek, Ranford, Rostrata and Willetton primary schools were trialling the new lego challenge after-school program.

E2 young engineers Perth were delivering the program and team leader Chee Wong said the children were using lego to create things like blenders, helicopters and washing machines.

He said they were learning principals some first year engineering students would

learn. "When you think of science in schools, most people picture a teacher with a lab coat scribbling formulas on the whiteboard," he said.

"The students are having fun but more importantly they are learning about gear transmission and gear ratio at the same time.

"Lego helicopters teach students the basic physics underpinning flight.

"Lego washing machines teach students about torque and centrifugal forces."

Mr Wong said the children were constantly counting, multiplying and solving problems. He hoped to expand the program across Perth.



Amber Kempton and Grace Wong putting their engineering skills to the test with lego. Photograph — Matt Devlin.

Canning Times (Queen of Apostles Primary School) [Mar 2016]

RIVERTON

Building on a good education

YOUNG engineers in the making at Queen of Apostles Primary School in Riverton have taken up lego building in order to master scientific principles.

The program, titled Young Engineers, was introduced to years 2, 3 and 4 students this year and the weekly sessions aim to develop a passion for science, technology, engineering and mathematics through Lego.

Teacher Melissa Edmonds said the youngsters had enthusiastically taken

up the challenge and thrived.

"When asked, our students said that the program is fun, cool, awesome and exciting," she said.

"The students said that they love Lego and building things with motors, especially things that spin and swing really fast, including a blender to mix jelly and a rocking pirate ship.

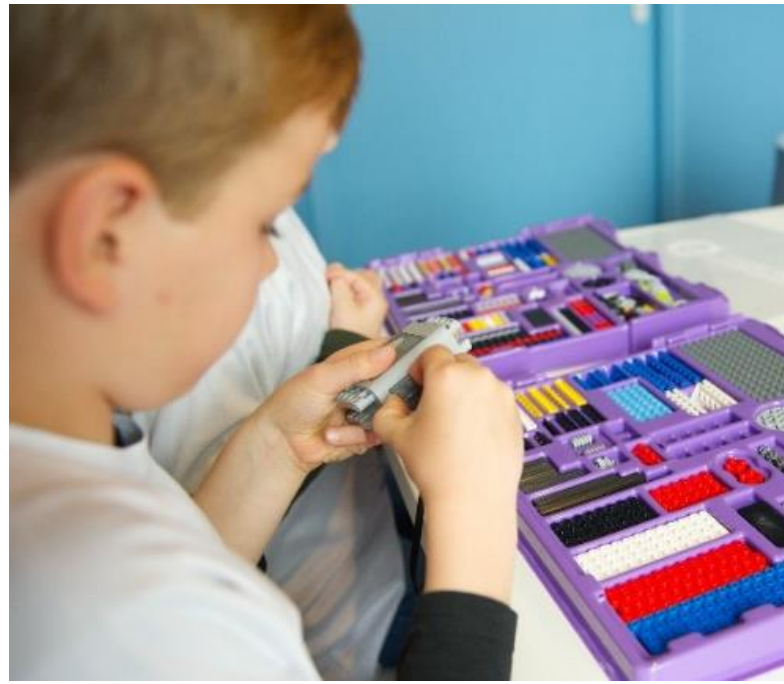
"The children said the program was their favourite part of Fridays because it makes them very happy."

Students Oliver Fenwick, Meher Lobana, and Jlen McKenzie learn about scientific principles using Lego.



Canning Examiner Newspapers (Rostrata Primary School) [9 September 2015]

Testimonials



We are really pleased with the Young Engineers program which Matthew has attended now for several terms. The program seems well organised, structured but also allowing for individual creativity. Hands-on activities like this a great way of teaching some difficult concepts, and even if Matthew doesn't remember the exact terms like "the law of conservation of angular momentum" the idea has been sown and when he is doing Yr. 10 physics (ha-ha) he may recall the experiences of YEC!!

Susan (parent - Willetton Primary)

The children and the parents are raving about it and so happy. One parent told me that their child has asked if they can't go away on holiday as he doesn't want to miss any sessions :) Other parents have commented on the high level of engagement and focus. From a personal perspective, my child Louis has never gravitated towards building Lego or the underlying principles you are teaching them and it is lovely to watch him come home enthused, discussing what you did in class and then going straight to his bedroom to do more Lego building.

Caitlin (parent & P&C President - Hilton Primary)

May I congratulate you and your team on a great club and the teaching of basic engineering principals. Please take heart in knowing not all the parents think it is "just playing with Lego". As a STEM researcher myself with some exposure to STEM extension programs in primary schools, I know the importance of engaging children in the activity so that the learning becomes innate. And may I say my son is always excited to show me what he has done, he insists I take a video each week so he can describe how it works. He may not always describe his project with the technical terms, but he certainly understands the principles. And he also has a great imagination for what else the structure could be - his manual electric beater in week 3 became a radiation super gun!

Nola (parent & STEM researcher - Queen of Apostles Primary)