



R.E.A.L Robotics Program

Sunbury Schools

“Engaging students in stimulating learning via robotics and design thinking”





Victorian Academy
of Teaching and Leadership

Sunbury School Network **R.E.A.L Robotics Program**

Laban Toose

Principal Sunbury Heights PS

First Lego League Tournament Director



R.E.A.L Robotics Program

ACKNOWLEDGEMENT OF COUNTRY

WE GATHER AT SUNBURY
HEIGHTS PRIMARY SCHOOL TO
CONTINUE OUR LEARNING
JOURNEY.

WE ACKNOWLEDGE THE
WURUNDJERI PEOPLE AS THE
TRADITIONAL CUSTODIANS OF
THE LAND ON WHERE WE PLAY
AND LEARN AND RESPECT THEIR
ONGOING CONNECTIONS TO THE
WATER WAYS, SKY, AND
COUNTRY.

WE PAY OUR RESPECTS TO
ELDERS, PAST, PRESENT AND
EMERGING, AND UNITE TO CARE
FOR OUR SCHOOL IN HARMONY.

R.E.A.L Robotics Program

Learning Intention

- > To develop an understanding of the R.E.A.L Robotics Program and how it can enhance school networks.

Success Criteria

- > I can identify the key features of the R.E.A.L Robotics program.
- > I know how the program can enhance a school network.
- > I know how the program supports and enhances school transition.



R.E.A.L Robotics Program

What is R.E.A.L Robotics

- > **R**obotics
- > **E**nhanced
- > **A**ppplied
- > **L**earning



R.E.A.L Robotics Program

Program aims

- An opportunity for students to experience the benefits of teamwork and collaboration.
- Development of research and design technology skills
- An alternative to our network school's summer & winter sports program.
- An opportunity for a STEAM CoP for educators.
- An opportunity to strengthen 6-7 transition program with local Secondary Schools.



R.E.A.L Robotics Program

Program History

- **2016** – Wyndham Park Primary School entered First Lego League Competition.
- **2017 – 2022** – Wyndham Schools R.E.A.L Robotics Program.
 - 10 schools participating in 2017.
 - 17 schools in 2022 (22 teams entered in competition).
 - Now facilitated by Wyndham Tech School.
- **2023 – 2024** – Sunbury Schools R.E.A.L Robotics Program.
 - 10 schools participating including 2 secondary Colleges.



R.E.A.L Robotics Program

What we do

- 4-day program across the school year (1 day per term).
- Teams of 10 students & a coach (teacher) from each school.
 - Build and program a Spike Prime Lego Robot.
 - Complete 2 research projects.
 - Team Building activities - team name
 - Participate in the **First Lego League Robotics Competition.**



R.E.A.L Robotics Program

First Australia - First Lego League

- > First Australia <https://www.firstaustralia.org/first-lego-league>
 - 3 program streams – Discover, Explore & **Challenge**
 - Annual Competition – August – November
 - New theme every year – 2024 = Submerged
 - **Robot Game** - missions
 - **Research Project** – Presentation to judging panel
 - **Robot Design** – Discussion with Referees
 - **Core Values** – Demonstrated throughout competition

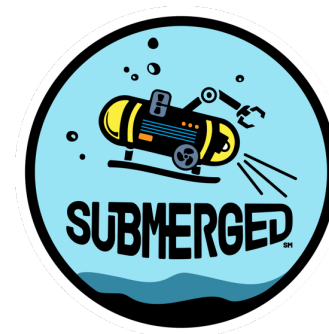


R.E.A.L Robotics Program

First Lego League – Robot Game



MASTER
PIECE



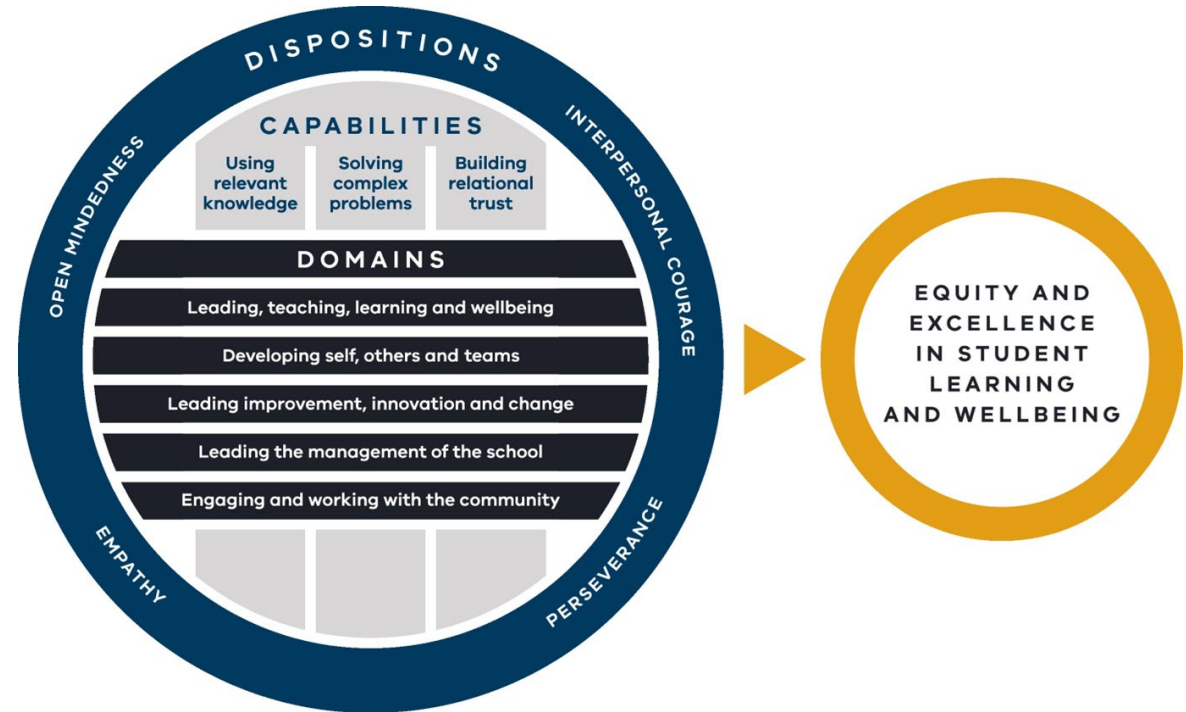
What are the benefits of this program in our school networks?

- Simplicity of the program
- Enhances collaboration
- Resource sharing
- Local CoP for STEAM teachers
- An opportunity for enhancing 6-7 transition



What have been the benefits for school leaders?

- Access to additional funding via Schools Plus
 - Covers TiL
 - Covers Professional learning costs
 - Covers resources
 - Covers Competition Entry
- Partnership with Business - Salesforce
 - Volunteer workforce
 - Expanding partnership opportunities



R.E.A.L Robotics Program

Funding Source

> <https://www.schoolsplus.org.au/>

- Applications open annually from August – September.
- ICSEA value 1000 or below.
- Partnership with a business.
- Coach & Knowledge Sharing Hub.

Schools Plus 



R.E.A.L Robotics Program

Program Partner

- > Salesforce <https://www.salesforce.com/au/>
 - Donated funding.
 - Volunteers for the program.
 - Opportunity for future programs – buddies, careers.



R.E.A.L Robotics Program

Other considerations

- > Venue
- > Training (PL for coaches)
- > Time for program
 - (1 hour per week and 1 day per term)
- > Robotics Table
- > Spike Prime kit
- > Practice Kits

