



JAMES NASH
STATE HIGH SCHOOL

Term 2 E-newsletter

Welcome to MindSET-do, where we believe that STEM learning should be accessible to everyone. Our mission is to develop student, teacher, parent, and community confidence, knowledge and skills to succeed in STEM and create more diverse and inclusive workplaces in these fields. MindSET-do is a widening participation program developed by the University of the Sunshine Coast (UniSC) to increase participation in tertiary education in STEM fields.

Upcoming Events

Our events bring together all things STEM in a range of exciting and engaging events hosted across Sunshine Coast and beyond. Events include various challenges and immersive experiences to get students (and adults) excited about STEM!

[Parent/Carer Workshops](#)

[RoboRave Australia](#)

Latest News & Offerings

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Community Robotics Clubs – Fraser Coast & Gympie

Our Fraser Coast and Gympie Robotics Clubs have been buzzing with excitement as students from years 5, 6, and 7 dive into the world of robotics!

Over the past few weeks, our young innovators have been busy coding and building their own robots, preparing for the thrilling RoboRave competition.

Highlights:

- **Coding Skills:** Students have been honing their computational thinking skills, learning to write and debug code that brings their robots to life.
- **Building Robots:** From assembling intricate parts to customising their bots, our students have shown incredible creativity and technical skill.
- **Collaboration:** Teamwork is at the heart of our club. Students collaborate on projects, share ideas, and help each other overcome challenges.
- **Expert Guidance:** Our sessions are led by expert presenters who provide valuable lessons and hands-on support, ensuring every student can succeed.

Upcoming Event:

- **RoboRave Competition:** Mark your calendars for July 13-14! Our students will showcase their hard work and compete against other teams, putting their robots to the ultimate test.

We are incredibly proud of the progress our students have made and can't wait to see their creativity shine at RoboRave. Stay tuned for more updates and join us in celebrating the bright future of STEM education at Fraser Coast and Gympie regions.



Science & Engineering Challenge – Fraser Coast

On Friday, May 17, the Science & Engineering Challenge took place in Hervey Bay, bringing together talented students from eight schools in our region. This exciting event was generously funded by the Rotary Club of Hervey Bay City.

The students were the true heroes of the day! Their teamwork, problem-solving skills, and enthusiasm were inspiring as they tackled each challenge. Celebrating their achievements was a highlight of the event.

This event showcased community spirit, with volunteers, sponsors, and educators coming together to inspire the next generation of STEM leaders. Let's continue to support innovation, collaboration, and education in our region.





Moreton Bay Technology Alliance (MBTA)

MindSET-do are proud to be working with the Moreton Bay Technology Alliance (MBTA), through which we are contributing our dedicated volunteers to support several of their events. Our collaboration aims to inspire and engage young minds in STEM education across various age groups.

These events are an excellent opportunity for students to explore STEM in a hands-on and collaborative environment, igniting their curiosity and passion for technology. For more details on these events, please visit our [events calendar](#).

We are proud to contribute to these MBTA events, helping to create enriching STEM experiences that inspire the next generation of innovators.

Primary and Secondary Lessons

MindSET-do has been hard at work delivering dynamic STEM workshops to primary and secondary schools, making a significant impact on students, teachers, and communities.

Primary School Workshops: Students have been immersed in hands-on, inquiry-based learning experiences that spark curiosity and foster a love for STEM. These activities align with curriculum standards and instill confidence in students' STEM abilities from an early age.

Secondary School Workshops: Our secondary workshops focus on complex concepts and problem-solving skills. By engaging students in real-world STEM applications, we aim to prepare them for future careers and inspire further education in STEM fields.

Highlighting Our Teams: Our workshops' success is due to our dedicated teams. Their expertise and enthusiasm ensure that every student gains a deeper understanding and appreciation of STEM.

Regional Impact: Delivering workshops across Moreton Bay, Sunshine Coast, Gympie, Fraser Coast and South Burnett we reach diverse students and educators. Tailoring our programs to each region's needs, we ensure a relevant and enriching STEM experience for all participants.

As we look to the future, we are excited to continue making STEM education accessible and engaging for everyone. Thank you for your ongoing support in creating diverse and inclusive workplaces in STEM fields.





Asha Cooper

Meet our Presenters

Asha is a dedicated student enrolled in the Bachelor of Psychology (Honours) program at UniSC. Originally from Quilpie, Queensland, Asha moved to Kingaroy for high school.

In primary school, Asha was curious and enthusiastic, balancing competitive swimming and horse-riding with a passion for painting, piano, creative writing, and science. In high school, she faced challenges transitioning but soon immersed herself in extracurriculars like agricultural science, netball, volleyball, and student council.

Her passion for Science and Health subjects grew, leading her to pursue them further. Asha became a MindSET-do presenter to share her love for psychology and STEM, aiming to inspire the next generation. She enjoys connecting with students, answering their questions, and guiding them towards their goals. She is inspired by their resilience and is grateful to be part of their educational journey.

Asha's advice to students: "Pursue your passions and let your curiosity guide you."

Join us in welcoming Asha to our team of presenters!

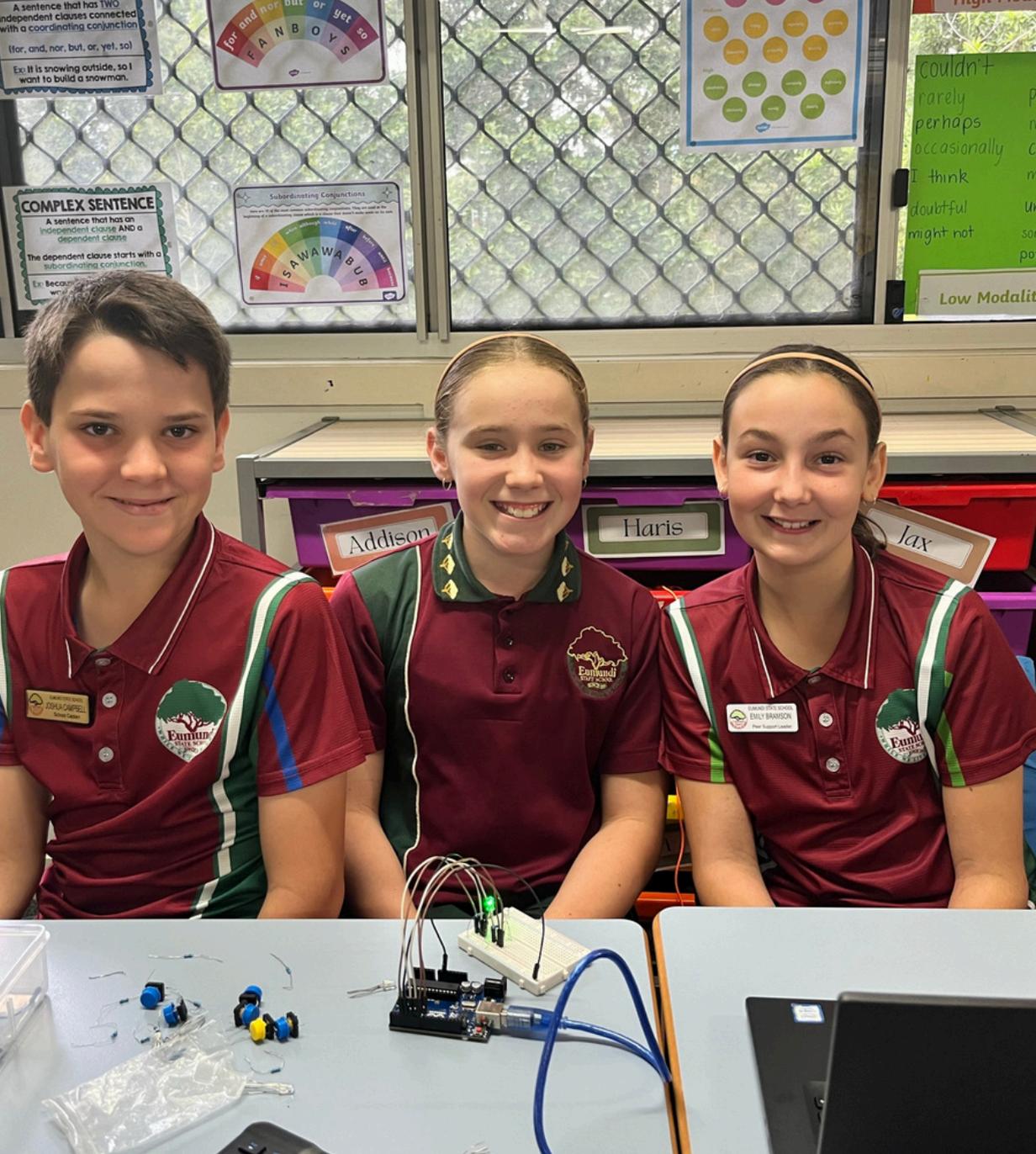
Home School STEM Activities

Due to the popularity of the programs we are now providing two 90-minute sessions during Term 2 at UniSC Sunshine Coast campus, and these will continue into Term 3. We will also provide one 90minute session at UniSC Moreton Bay campus in Term 3 due to the growing popularity in this area.

These sessions are a fantastic opportunity for students who do not attend mainstream schools to engage in interactive STEM activities. In Term 2 the activities focused on biology with DNA extraction of fruit, biodiversity activities, investigating sustainable lemon batteries, together with bridge designing and building. Term 3 will focus on machine learning and environmentally sustainability projects like creating, coding and building an automated forestry seed planter.

We look forward to continuing to support the Home School community!





Research Update

We are excited to announce the successful wrap-up of the "Encouraging Early Career Aspirations in STEM: Sunshine Coast" research project at the end of Term 2. This collaborative initiative between the University of the Sunshine Coast (UniSC) and the Sunshine Coast Council (SCC) aimed to address the gender disparity in STEM studies post high school and the gap between the STEM skills taught in the education system and the increasing industry demand for these skills.

Driven by a shared commitment to enhancing educational outcomes and supporting the region's economic growth and sustainability, this project focused on developing targeted STEM initiatives. The collaboration has made significant strides in fostering early career aspirations in STEM among students, contributing to a more balanced and skilled future workforce in the Sunshine Coast region.

Exciting Parent/Carer Workshops on the Sunshine Coast!

These engaging sessions were crafted to spark curiosity and explore STEM pathways, providing a special opportunity for parents/carers and their children to come together, learn, and uncover the limitless possibilities within science, technology, engineering, and maths.

What we offer: Interactive Sessions: Engaged in hands-on activities and informative discussions designed for both parents/carers and students, encouraging collaboration and shared learning experiences.

Exploring STEM Pathways: Discovered the vast opportunities within STEM fields and learned how to nurture and support your child's passion for STEM subjects.

Higher Education Insights: Learned about the various pathways available for your child after school, including valuable information about university opportunities and career prospects.

Expert Speakers: Gained insights from industry professionals, school representatives, and UniSC marketing experts who shared their knowledge on the future of work, STEM education, and higher education pathways.

Tailored Content: Our workshops were customized for both primary and secondary school students, ensuring relevant and age-appropriate content for all participants.



[MORE INFO](#)

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MindSET-do is a widening participation program developed by the University of the Sunshine Coast (UniSC) to increase participation in tertiary education in STEM fields.

It is partly funded by the Australian Government Department of Education, Skills and Employment under the Higher Education Participation and Partnerships Program.