

Yeronga SHS STEM Academy

Developing 21st century skills through STEM (Science, Technology, Engineering & Maths) education.

What is STEM?

The acronym STEM originates from discussions about the lack of qualified people to work in high-tech jobs and stands for Science, Technology, Engineering and Maths. Since its creation, governments around the world have made STEM education a priority to ensure future economic growth within their countries.

Why study STEM?

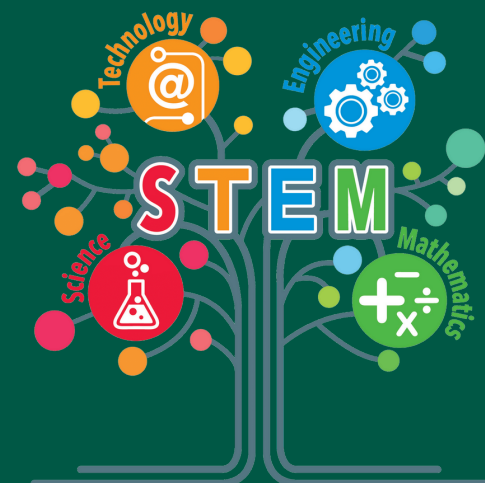
The future of employment is changing rapidly with many industries requiring a cross disciplinary approach to ensure they are competitive in this era of globalisation. Education plays a crucial role in ensuring that our students have the 21st century skills and digital capabilities to meet the challenges required of a future work force.

At Yeronga State High School, our STEM program covers the 4 STEM disciplines across 3 subjects in a cross disciplinary approach. Students commence the program in Year 7 and study a tailored Science, Technology/Engineering and Maths program as a class group. The curriculum focuses on real-world problem solving through project-based and enquiry-based learning in collaboration with our many University and Industry partners.



STEM ACADEMY

YEARS 7, 8 & 9



What will I do and learn?

In the STEM Academy, students will be involved in a broad range of learning that includes:

- drone futures and robotics
- advanced manufacturing – recreational vehicles
- design and build a retro arcade machine
- coding – design and make video games
- build your own Raspberry Pi computer
- social entrepreneurship – designing with empathy
- biomedical science
- projectile motion
- green energy
- cryptology
- forensic investigation
- celestial modelling and...
- much more

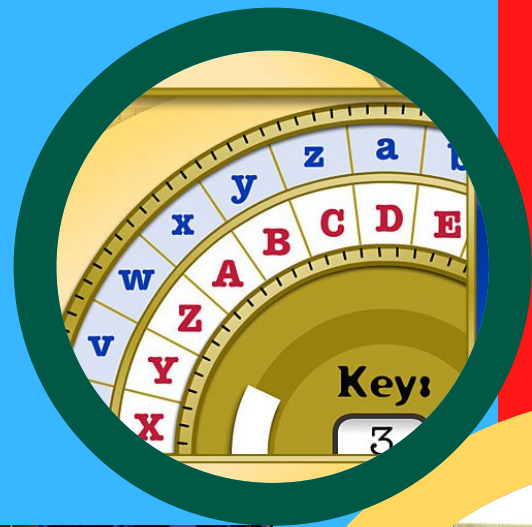
STEM Academy Partners

- University of Queensland
- Queensland University of Technology
- Impact Centre
- Australian Business and Community Network (ABCN)
- Gateways to Industry – Advance Manufacturing
- Gateways to Industry – Minerals and Energy
- StyroMax and PARTEC – RV industry
- Artists and Industry in classrooms



It's vital that Australia keeps pace with technological change to advance its economy and prosperity. Without adequate STEM skills and understanding in Australia, there is a risk that companies searching for these skills will be forced to set up elsewhere. But if we prepare Australians for the jobs of the future, we will enjoy a thriving cycle of jobs and opportunities.

Australian Curriculum



Applying

Students wishing to express an interest in this Academy for Years 7, 8 and 9 are encouraged to submit an application for review by the school. The outline of our STEM Academy Year 7 to 10 curriculum can be found on our website.

If you would like any further information, please contact Gordon Collis, Head of Department Creative Industries & STEM

gcoll26@eq.edu.au

