



Science, Technology, Engineering and Mathematics (STEM) at Georgiana Molloy Anglican School

Georgiana Molloy Anglican School (GMAS) is a co-educational private school located in Busselton, Western Australia. The school's STEM program was recognised last year when it became a finalist in the inaugural Governor's School STEM Awards.

The STEM program at GMAS contributes to the School's Strategic Planning in the areas of Sustainability and Dynamic Curriculum Delivery.

Hamish Gibson, Science Head of Department at GMAS, said "the aim is to encourage science learning through the use of technology, participation in projects and the use of mathematical skills. We provide opportunities for students to pursue excellence and participate in projects that contribute to the local and broader scientific community."

The school provides students with a variety of project-based learning opportunities including:

- Cows Create Careers program (Year 8 and 10) - students learn about the science involved in the Dairy Industry through caring for calves -monitoring growth rates and health.
- Pedal Prix (Year 10, 11 & 12) - students design, build and race a human-powered vehicle in a 6-hour endurance event.
- Organic Garden and Aquaponics -students learn about nature's recycling systems, crop rotation, soil science and sustainable practices involved in fish farming. Produce is then sold to school community and used in the Stephanie Alexander Kitchen Garden Program.



Classroom-based activities allow students the use of Digital microscopes, and participation in competitions including Science IQ Quiz, ASMR Medical Research Quiz, Brain Bee and the STAWA Science Talent Search. Students have also been involved in building possum boxes for the critically endangered western-ringed tail.



The Governor's School STEM Awards recognise principals and school leadership for high quality outcomes and approaches in the STEM subjects as well as in the way STEM teaching is integrated across the learning areas. For more information on the awards and to learn how your school can become involved, visit

<https://www.dpc.wa.gov.au/science/AwardPrograms/GovernorsSchoolSTEMAwards/Pages/default.aspx>