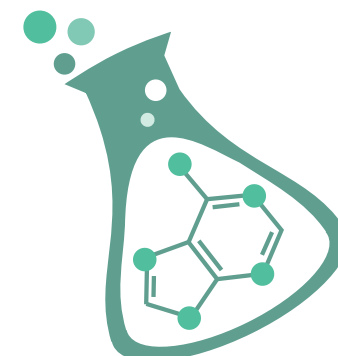


How to apply

For more information about the application process visit the curriculum tab on our website:
www.trinitybayshs.eq.edu.au

Further information may also be obtained by emailing: 2057_SOE@eq.edu.au



SCIENCE

Trinity Bay State High School



Trinity Bay State High School
**SCHOOL of
EXCELLENCE**

Science Excellence Program

Program Philosophy

The Science Excellence Program is unique to Trinity Bay State High school. The Excellence Program is designed to build intellectual talents and develop practical science skills for academically advanced science students and intellectually gifted students. At its heart, the Science Excellence Program is about like-minded individuals being placed in the right environment with all the key provisions for talent development.

Students are motivated towards extending their talents when the focus is of great personal interest or choice. The program we offer provides a variety of catalysts for intellectual growth that are designed specifically to those students in the Excellence Program and tailored for individual choice. This includes linking with industry experts, mentoring scientists, exciting experiments, competitions, excursions and even the chance to meet celebrity scientists.

At Trinity Bay State High School we are committed to caring for our region's advanced and gifted science students in an environment that caters for their special abilities and fosters their talents.



Program Goals

- To offer appropriately differentiated curriculum for academically advanced science students and intellectually gifted students.
- To enthuse students about careers and in their science education.
- To extend students' academic competencies in the domains of science, technology, engineering, mathematics and foster their natural creative and intellectual abilities.
- To expose students to higher order thinking skills through science.
- To involve parents and mentors.
- To reward success with special events, student presentation nights and science expo week celebrations.
- To expose students to cutting edge science and scientists through partnerships with science based organisations and universities. A minimum of 10 face-to-face meetings with scientists and industry experts will be offered annually.
- To offer the widest range of extra curricula science activities.

Key Features of our Program

Specialist subject choice

Students accepted into the Science Excellence program will enrol in the Science Academy suite of subjects. The Science Academy consists of science subjects and extra curricula experiences that extend and enthuse students about science and careers in science based professions.

The Science Academy subjects include advanced theoretical and experimental studies with like-minded students in Physics, Chemistry, Biology, Earth and Environmental Science, Astronomy and Astrophysics, Robotics, Marine Science, Psychology and open choice projects.

The CSIRO and university links

Students each year will participate in a number of special programs including:

- The CSIRO CREST (Creativity in Science and Technology) Awards - which are a major part of the program.
- The Daintree Rainforest Observatory (Our classroom in the Rainforest).
- Specialist CSIRO projects on such topics as robotics, forensics, genetics and environmental science.
- The Science and Engineering Challenge (mentored by engineers).
- Sleek Geeks Video Competitor.
- Students will link in with university programs e.g. The JCU Science Experience camp, Orpheus Island - Classroom on the Reef.

Unique and extra experiences

The students will have access to the school's Astronomy classroom which is purpose built to house our Starlab planetarium. Each year the Grade 10 academy students are given priority to join the school's Canberra Science Trip which includes visits to the Questacon Science museum, a ski trip and an opportunity to examine the use of science at the Australian Institute of Sport. These examples are just two of over thirty different extra opportunities in Science, many of which are unique to our science department. Each year the school runs a science week celebration that features expert performances and visits from both local and national scientists as well as a variety of science organisations.

Showcasing and sharing science

Students in the science excellence program will work together to run a number of evening presentations for parents where they will share their work and achievements. These include astronomy nights, experiment nights and opportunities to showcase their CSIRO CREST awards. At times the students will be called upon to volunteer as mentors and present shows to visiting primary school students. Students will be guided and encouraged to attend university based experiences and camps such as the JCU Science Experience, the QUT STEM camps and, in later years, the National Youth Science Forum.