

Strategic Plan 2013 to 2017

Learning Area: Mathematics

Head of Learning Area: Rob Prestwidge

Purpose and Core Values

The Learning Area is here to serve the College community to deliver the best possible educational and spiritual outcomes for all members in it. Our core values are teamwork, co-ownership of vision, Christ-like professionalism and community.

Vision and Strategies

- To enable students to have numeracy skills for life, work and further study.
- To make Mathematics applicable to real-life circumstances appropriate to each student's ability.
- To build each student's confidence in their own ability in Mathematics at their ability level.
- Use Mathematics as a vessel to present the love of Christ and Biblical concepts.

Our business is focused on student centered learning, parent satisfaction and fulfilling God's calling to the Christian Education mission at Swan Christian College.

Three-Year Operational Goals

- Implementation of Bring Your Own Device (BYOD) to facilitate new learning in the Mathematics learning area.
- Continue to develop programs that encourage real-life applications of mathematical concepts.
- Encourage staff in their understanding and use of strategies and techniques of building and developing student confidence, skills and ability to apply core mathematical principles.
- Transitional from the Western Australian Curriculum to the Australian Curriculum.
- Promoting Mathematics as a worthwhile course to study for university and non-university bound students.

Five-Year Operational Goals

- Full and effective implementation of the Australian Curriculum.
- Make a seamless transition for students from Middle School to Senior School.
- Preparing students with a solid foundation in Middle school to be able to select the higher and appropriate Mathematics courses in senior school.
- Increase the number students in higher-level Mathematics courses and improve their overall performance level.
- Improvement in the overall and individual results for all year 12 Mathematics courses.
- Raise the normal expectation amongst students to complete sufficient study, homework and preparation for assessments and develop effective revision systems, and raise parental awareness of their child's effort.

Our Strategies to deliver on our Vision and 5-year goals are:

- Send teachers on specific professional development opportunities that assist in fulfilling strategic plans for Mathematics.
- Technology specific training that assists the delivery of the curriculum and to enhance learning for students.
- Mathematics staff discussions on effective procedures and methods of developing student revision, study and preparation for assessments.
- Mathematics staff discussion on the importance of and methods of revision both during class and as homework for students.

Challenges over the next 1 to 2 years are:

- Implementing the Australian Curriculum.
- Mathematics teachers being proactive in reflective practice.
- Mathematics teachers adjusting to technology demands and their effect on students.
- Implementing Investigations for Years 7 to 10 students.
- Increased rigor and appropriate challenges to stimulate students in Advanced Mathematics courses.
- Mathematics teachers developing their ideas and implementation of effective revision techniques.