

TERANG COLLEGE

MATHEMATICS

POLICY (Student)

1. RATIONALE

Mathematics pervades all aspects of our lives - as citizens, in our homes and in the workplace. It has applications in all human activities, crossing cultural and linguistic boundaries to provide a universal way of solving problems in such diverse areas as science and engineering, business and finance, technology, arts and crafts and many everyday activities. Competence in mathematics is integral to successful participation in modern society.

2. AIMS

Through learning mathematics in school, students will:

- 2.1. demonstrate essential mathematical and numeracy skills necessary for successful employment and functioning in society
- 2.2. solve practical problems with Mathematics, especially industry and work-based problems
- 2.3. develop specialist knowledge in Mathematics that provides for further study in the discipline
- 2.4. see Mathematical connections and be able to apply Mathematical concepts, skills and processes in posing and solving mathematical problems
- 2.5. be confident in one's personal knowledge of Mathematics, to feel able both to apply it, and to acquire new knowledge and skills when needed
- 2.6. be empowered through knowledge of Mathematics as a numerate citizen, able to apply this knowledge critically in societal and political contexts
- 2.7. develop understanding of the role of mathematics in life, society and work; the role of Mathematics in history; and Mathematics as a discipline – its big ideas, history, aesthetics & philosophy.

3. IMPLEMENTATION

- 3.1. Issues, actions and decisions relating to this policy will take into account Department of Education and Training policies, memos, guidelines and circulars and Government Ministerial Orders and Acts.
- 3.2. The mathematics domain is an essential component of the Victorian Curriculum.
- 3.3. All students at the College will study a sequential Mathematics course based upon the learning foci contained within the Victorian Curriculum.
- 3.4. All staff will have access to relevant and up to date resources.
- 3.5. Wherever possible mathematics will be integrated into other learning areas.
- 3.6. Staff will ensure there is an emphasis on “real world” applications of mathematics.
- 3.7. Whenever possible students will have the opportunity to explore mathematical ideas through creative, hands on activities.
- 3.8. Students will be given access to “concrete” materials whenever needed.
- 3.9. Mathematics study for each student will be no less than 6 sessions per week and will incorporate the ICT curriculum.
- 3.10. Mathematical activities that reflect the topics being studied at school and are appropriate to each child's ability will form a regular component of each student's homework regime.
- 3.11. The mathematics curriculum across P-10 will be documented annually including links to any resources used. Tasks will be modified or changed so all students are given opportunities to progress and delivered tasks at their proximal level of development.
- 3.12. The Mathematics KLA leader will conduct discussions regarding the analysis, interpretation and use of collected data during PLC meetings to create strategies to improve student outcomes.
- 3.13. Technology will be incorporated in the study of Mathematics and students will learn how to effectively and appropriately utilise the technology when solving routine and contextual problems.
- 3.14. Mathematics subjects for VCE and VCAL students will be offered whenever there is a desire from students and qualified staff to teach it.

4 EVALUATION

- 4.1 This policy will be reviewed every three years as part of the College's Policy review cycle.

Approved by College Council on 20/08/2018