

# MATHEMATICS POLICY

## PURPOSE:

The purpose of the Mathematics program is to:

- 1.1 Provide meaningful mathematical challenges to enable our students to develop concepts, strategies and mathematical knowledge that ensure they become numerate citizens.
- 1.2 Promote an awareness of how mathematics is used in daily life and to solve mathematically related problems.
- 1.3 Promote mathematics as being useful, positive and enjoyable.
- 1.4 Support parents in understanding how their children learn mathematics and the importance of involvement in their children's mathematical development.
- 1.5 Develop programs that will support the individual needs of students in line with the philosophies of Early Years and Middle Years numeracy.

## GOALS:

Through learning mathematics at Baden Powell College, students will:

- 2.1 Develop mathematical knowledge of strategies, skills and facts so they can deal confidently and competently with daily life.
- 2.2 Develop a depth of conceptual understandings, knowledge and skills in using mathematics.
- 2.3 Be able to apply mathematical knowledge, strategies and skills to solve problems related to their experiences
- 2.4 Interpret and communicate mathematical ideas and concepts logically and accurately
- 2.5 Achieve success in numeracy at their individual developmental stage.
- 2.6 Use technology appropriately and effectively to support the learning of mathematics, and in carrying out mathematical activities in context.

## GUIDELINES:

- 3.1 Teachers will use the AusVELS and Australian National Curriculum, Proficiency Strands, Content Descriptors to develop sequential mathematical programs for students from Prep to Year 9 and implement The Australian National Curriculum in Mathematics using the whole college Scope and Sequence.

- 3.2 Teachers will be provided with other resources, including Mathematics Online Interviews, Mathematics On Demand tests, Numeracy Continuum, Problem Based Maths (eg Back to Front, Booker) to work within teams and learning partnerships to develop and implement a mathematics program that caters for the needs of individual students.
- 3.3 Early Years and Middle Years philosophies and the needs of Early Years and Middle Years students will be reflected in the numeracy program.
- 3.4 Mathematics will be timetabled for not less than 5 hours per week, in line with Department guidelines.
- 3.5 Mathematics planners will be developed and implemented by teams, and will be audited and evaluated regularly.
- 3.6 Student's individual abilities will be measured at the commencement of units of work, and learning opportunities will be provided that cater for the identified needs of students.
- 3.7 Students will have access to mathematical materials, tools and Information and Communication Technologies, to aid the development of their mathematical understandings.
- 3.8 Mathematics, where possible, will be integrated to make real connections across the three core interrelated strands of the AusVELS and Australian National Curriculum.
- 3.9 Intervention programs to provide additional assistance in numeracy will be developed, such as Extending Mathematical Understandings (EMU) for Early Years and Getting Ready In Number (GRIN) for Middle Years.
- 3.10 The assessment schedule will be determined by the Assessment and Reporting Team in conjunction with Numeracy Coaches and Team Leaders.

## **EVALUATION:**

- 4.1 The policy will be reviewed as part of the College's review cycle.
- 4.2 School Based Assessment tasks will be administered to all students from Prep to Year 9 at times set down in the Assessment and Reporting Timeline Schedule.
- 4.4 Other ongoing monitoring tools, such as sections of the Maths Online Interview (MOI), Common Assessment Tasks, pre and post tests, rubrics, work samples, self and peer assessment and anecdotal observations, will also be used to assess and monitor students.
- 4.5 Curriculum and resource audits will be conducted, when appropriate, to guide the purchase of suitable resources and support and improve the delivery of the mathematics curriculum.
- 4.6 The College's Annual Implementation Plan (AIP) will contain guidelines for monitoring student targets.