



Bowral High Mathematics Faculty

Course Information, Assessment & Reporting

Preliminary Mathematics

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Term 1	Basic Arithmetic & Algebra				Real Functions & Geometrical Representation			Linear Functions and Lines		
Term 2	Plane Geometry					<i>Mid-course exam and preparation</i>	Trigonometric Ratios			
Term 3	The Quadratic Polynomials and Parabola				The Tangent to a Curve and the Derivative of a Function				<i>Review</i>	<i>Course Exam</i>

Assessment

The rules for Preliminary Mathematics are as set out in the Bowral High School Preliminary Course Assessment Guide. Students should familiarise themselves with these rules. The assessment program for Mathematics is set out in the table below:-

Mathematics Assessment Task Schedule

COURSE: MATHEMATICS						
Outcomes	Components (syllabus)	Weighting (syllabus)	Task 1	Task 2	Task 3	Task 4
			Term 1 Week 10	Term 2 Week 5	Term 3 Week 3	Term 3 Week 9 & 10
			Work Sample and Revision Test	Mid-Course Exam and Work Sample	Work Sample and Revision Test	Final Exam and Work Sample
P1 – P9	Knowledge, understanding and skills	80	15	20	15	30
P1 – P9	Reasoning, interpretative, explanatory and communicative abilities	20	5	5	5	5
	Marks	100%	20%	25%	20%	35%

Reporting

A student progress report will be provided after the mid-course exam and at the end of the course. The report for each student will show:-

1. A Grade indicating the level of achievement in each area studied during the assessment period. These Grades will be based on the individual student's achievement in the course. The areas of assessment in Preliminary Mathematics are:-

Preliminary Mathematics – After mid-course exam

- Basic arithmetic and algebra
- Real functions and their geometrical representation
- Linear functions and lines
- Plane geometry and deductive reasoning
- Applying mathematical skills and knowledge to problem solving in a variety of situations

Preliminary Mathematics – Final report

- Provides reasoning to support conclusions

- Performs routine arithmetic and algebraic manipulation involving surds, simple rational expressions and trigonometric identities
- Chooses and applies appropriate arithmetic, algebraic, graphical, trigonometric and geometric techniques
- Understands the key concepts of calculus and differentiates a range of functions using appropriate rules of differentiation
- Interprets and communicates mathematics in a variety of forms

The grades awarded will be: Outstanding, High, Sound, Basic, Limited, N (fails to meet course requirements in the Preliminary Certificate), **n/a** (If the student was not at BHS for this work)

2. A personal profile for responsible learning, using the categories; **Always, Usually, Sometimes, Rarely.**

- Brings required equipment to class / is prepared
- Listens attentively and follows instructions
- Participates positively in class and discussions
- Interacts positively with teachers and students
- Works independently and is self motivated
- Meets homework/assignment deadlines

3. An indication of the number of lessons missed by the student.

4. Confirmation that the student is meeting course requirements for the Preliminary Certificate in Mathematics.

5. Teacher comment.

Special Notes

- **Homework** will be given on a regular basis and its completion and follow-up is considered to play an important part in building student confidence and skills in Mathematics.
- **Calculators** and their effective use are an essential part of senior Mathematics Courses and all students are required to have a scientific calculator with them in every mathematics lesson and for all assessment tasks. We strongly recommend you purchase a calculator through the Finance Office at Bowral High where we sell an approved calculator **at cost price**. This calculator is suitable for use through to Year 12 and beyond. Calculators purchased elsewhere may not have the required features.
- **Calculators may be used in all assessment tasks and in the HSC Examination in Mathematics.**
- **Geometry Equipment:** All students are expected to have a set of geometrical instruments consisting of a pair of compasses, a protractor, a setsquare, a ruler and a pencil. At the moment a geometry set is offered free as a bonus item with the purchase of a calculator through the Finance Office (see above).
- If, at any time, you would like to discuss your child's progress in Mathematics you may contact their Mathematics Teacher or Mr Reynolds, on 48612255.

M. Reynolds - Head Teacher Mathematics