



Gorokan High School
Year 11 Assessment Schedule 2023
Mathematics Extension 1

| Task number | Task 1 | Task 2 | Task 3 | |
|--|--|--------------------------------|--------------------|------------|
| Name of Task | In-class Test with Summary Sheet | Research Assignment | Yearly Examination | |
| Task Due | Term 1, Week 9 | Term 2, Week 9 | Term 3, Weeks 9-10 | |
| Outcomes assessed | ME11-1, ME11-2, ME11-5, ME11-6, ME11-7 | ME11-1, ME11-2, ME11-6, ME11-7 | All Outcomes | |
| Components | Task Weighting % | | | |
| Understanding, fluency and communication | 17.5 | 12.5 | 20 | 50 |
| Problem solving, reasoning and justification | 17.5 | 12.5 | 20 | 50 |
| Total % | 35 | 25 | 40 | 100 |

Course Outcomes:

ME11-1 uses algebraic and graphical concepts in the modelling and solving of problems involving functions and their inverses

ME11-2 manipulates algebraic expressions and graphical functions to solve problems

ME11-3 applies concepts and techniques of inverse trigonometric functions and simplifying expressions involving compound angles in the solution of problems

ME11-4 applies understanding of the concept of a derivative in the solution of problems, including rates of change, exponential growth and decay and related rates of change

ME11-5 uses concepts of permutations and combinations to solve problems involving counting or ordering

ME11-6 uses appropriate technology to investigate, organise and interpret information to solve problems in a range of contexts

ME11-7 communicates making comprehensive use of mathematical language, notation, diagrams and graphs