



Gorokan High School
Year 10 Assessment Schedule 2022
Mathematics 5.1/5.2/5.3

| Task number | Task 1 | Task 2 | Task 3 | | |
|-------------------|---|---|--|--|-----|
| Name of Task | Half-Yearly Exam | Investigative Task | Yearly Examination | | |
| Task Due | Term 2, Week 5 | Term 3, Week 10 | Term 4- Examination Period | | |
| Outcomes assessed | MA5.1-13SP MA5.2-6NA MA5.2-13MG MA5.2-17SP MA5.3-5NA MA5.3-6NA MA5.3-15MG | MA5.1-8MG MA5.2-11MG MA5.1-12SP MA5.3-13MG MA5.3-14MG | MA5.1-6NA MA5.2-4NA MA5.3-8NA MA5.2-9NA MA5.2-16SP MA5.3-19SP | | |
| Components | Task Weighting % | | | | |
| Problem Solving | 17.5 | 15 | 17.5 | | 50 |
| Reasoning | 8.75 | 7.5 | 8.75 | | 25 |
| Communication | 8.75 | 7.5 | 8.75 | | 25 |
| Total % | 35 | 30 | 35 | | 100 |

Course Outcomes:

- MA5.1-1WM** uses appropriate terminology, diagrams and symbols in mathematical contexts
- MA5.1-2WM** selects and uses appropriate strategies to solve problems
- MA5.1-3WM** provides reasoning to support conclusions that are appropriate to the context
- MA5.1-4NA** solves financial problems involving earning, spending and investing money
- MA5.1-5NA** operates with algebraic expressions involving positive-integer and zero indices, and establishes the meaning of negative indices for numerical bases
- MA5.1-6NA** determines the midpoint, gradient and length of an interval, and graphs linear relationships
- MA5.1-8MG** calculates the areas of composite shapes, and the surface areas of rectangular and triangular prisms
- MA5.1-9MG** interprets very small and very large units of measurement, uses scientific notation, and rounds to significant figures
- MA5.1-10MG** applies trigonometry, given diagrams, to solve problems, including problems involving angles of elevation and depression
- MA5.1-13SP** calculates relative frequencies to estimate probabilities of simple and compound events
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- MA5.2-1WM** selects appropriate notations and conventions to communicate mathematical ideas and solutions
- MA5.2-2WM** interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems
- MA5.2-3WM** constructs arguments to prove and justify results
- MA5.2-6NA** simplifies algebraic fractions, and expands and factorises quadratic expressions
- MA5.2-7NA** applies index laws to operate with algebraic expressions involving integer indices
- MA5.2-8NA** solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques
- MA5.2-9NA** uses the gradient-intercept form to interpret and graph linear relationships
- MA5.2-11MG** calculate the surface areas of right prisms, cylinders and related composite solids
- MA5.2-12MG** applies formulas to calculate the volumes of composite solids composed of right prisms and cylinders
- MA5.2.13MG** applies trigonometry to solve problems, including problems involving bearings
- MA5.2-17SP** describes and calculates probabilities in multi-step chance experiments
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- MA5.3-1WM** uses and interprets formal definitions and generalisations when explaining solutions and/or conjectures
- MA5.3-2WM** generalises mathematical ideas and techniques to analyse and solve problems efficiently
- MA5.3-3WM** uses deductive reasoning in presenting arguments and formal proofs
- MA5.3-5NA** selects and applies appropriate algebraic techniques to operate with algebraic expressions
- MA5.3-6NA** performs operations with surds and indices
- MA5.3-14MG** calculates the angle sum of any polygon and uses minimum conditions to prove triangles are congruent or similar

