



Gorokan High School
Year 10 Assessment Schedule 2020
Mathematics

Task number	Task 1	Task 2	Task 3	Task 4	
Name of task	Technology Assignment	Term Test with Summary Sheet	Term Test with Summary Sheet	Yearly Examination with Summary Sheet	
Timing	Term 1, Week 10	Term 2, Week 5	Term 3, Week 10	Term 4, Week 5	
Outcomes assessed	MA5.1-12SP MA5.2-15SP MA5.3-18SP	MA4-8NA MA5.1-13SP MA5.1-10MG MA5.2-17SP MA5.2-13MG MA5.2-16SP MA5.2-6NA MA5.3-10NA MA5.3-15MG MA5.3-19SP MA5.3-5NA MA5.3-11NA	MA5.1-6NA MA5.1-7NA MA5.2-9NA MA5.2-10NA MA5.3-8NA MA5.3-9NA MA5.3-12NA	MA4-7NA MA5.1-8MG MA5.2-5NA MA5.2-11MG MA5.2-12MG MA5.3-4NA MA5.3-13MG MA5.3-14MG	
Components	Task Weighting %				
Communicating	✓	✓	✓	✓	33⅓
Problem Solving	✓	✓	✓	✓	33⅓
Reasoning	✓	✓	✓	✓	33⅓
Total %	25	25	25	25	100

*Please note that bolded outcomes are only assessed for the students engaged in the 5.2 and 5.3 courses.

Course Outcomes:

- MA4-7NA** operates with ratios and rates, and explores their graphical representations
- MA4-8NA** generalises number properties to operate with algebraic expressions
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- 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
- MA5.1-5NA** 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
- MA5.1-7NA** graphs simple non-linear relationships
- MA5.1-8MG** calculates the areas of composite shapes, and the surface areas of rectangular and triangular prisms
- MA5.1-10MG** applies trigonometry, given diagrams, to solve problems, including problems involving angles of elevation and depression
- MA5.1-12SP** uses statistical displays to compare sets of data, and evaluates statistical claims made in the media
- 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
- MA5.2-5NA** recognises direct and indirect proportion, and solves problems involving direct proportion
- MA5.2-6NA** simplifies algebraic fractions, and expands and factorises quadratic expressions
- MA5.2-9NA** uses the gradient-intercept form to interpret and graph linear relationships
- MA5.2-10NA** connects algebraic and graphical representations of simple non-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
- MA5.2-15SP** uses quartiles and box plots to compare sets of data, and evaluates sources of data
- MA5.2-16SP** investigates relationships between two statistical variables, including their relationship over time
- 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
- MA5.3-4NA** draws, interprets and analyses graphs of physical phenomena

- MA5.3-5NA** selects and applies appropriate algebraic techniques to operate with algebraic expressions
- MA5.3-8NA** uses formula to find midpoint, gradient and distance on the Cartesian plane, and applies standard forms of the equation of a straight line
- MA5.3-9NA** sketches and interprets a variety of non-linear relationships
- MA5.3-10NA** recognises, describes and sketches polynomials, and applies the factor and remainder theorems to solve problems
- MA5.3-11NA** uses the definition of a logarithm to establish and apply the laws of logarithms
- MA5.3-12NA** Uses function notation to describe and sketch functions
- MA5.3-13MG** Applies formulas to find the surface areas of right pyramids, right cones, spheres and related composite solids
- MA5.3-14MG** calculates the angle sum of any polygon and uses minimum conditions to prove triangles are congruent or similar
- MA5.3-15MG** Applies Pythagoras' theorem, trigonometric relationships, the sine rule, the cosine rule and the area rule to solve problems involving three dimensions
- MA5.3-18SP** Uses standard deviation to analyse data
- MA5.3-19SP** Investigates the relationship between numerical variables using lines of best fit, and explores how data is used to inform decision-making processes