Gorokan High School

Year 10 Assessment Schedule 2024

Mathematics 5.1/5.2/5.3

Task number	Task 1	Task 2	Task 3	
Name of Task	Semester 1 Exam	Investigative Task	Semester 2 Examination	
Task Due	Term 2, Week 4	Term 3, Week 9	Term 4. Week 5	
Outcomes assessed	MA5.1-5NA MA5.1-4NA MA5.2-6NA MA5.2-7NA MA5.3-5NA MA5.3-6NA MA5.1/2/3-2WM MA5.1/2/3-3WM	MA5.2-16SP MA5.3-19SP MA5.1/2/3-1WM MA5.1/2/3-2WM MA5.1/2/3-3WM	MA5.2-4NA MA5.1-6NA MA5.2-9NA MA5.3-8NA MA5.2-11MG MA5.3-13MG MA5.1/2/3-2WM MA5.1/2/3-3WM	
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

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

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
MA5.3-15MG   Applies Pythagoras' theorem, trigonometric relationships, the sine rule, the cosine rule and area rule to solve problems, including problems involving three dimensions.