Learning and Assessment Overview

MALANDA STATE HIGH SCHOOL

Year 8 - 2025 — Mathematics

	Unit	Length	Achievement Standards	Assessment	Checkpoints	Due Date
Term 1	Number & Probability	9 weeks	1.1 – Students recognise irrational numbers and terminating or recurring decimals. They solve problems involving the 4 operations with integers and positive rational numbers. They use mathematical modelling to solve practical problems involving ratios, percentages and rates in measurement and financial contexts.	Exam	-	26/02/25
			1.2 – Students represent the possible combinations of 2 events with tables and diagrams, and determine related probabilities to solve practical problems. They conduct experiments and simulations using digital tools to determine related probabilities of compound events.	Exam	-	26/03/25
Term 2	Measurement & Algebra	10 weeks	2.1 – Students recognise irrational numbers and terminating or recurring decimals. They use appropriate metric units when solving measurement problems involving the perimeter and area of composite shapes, and volume of right prisms. They use Pythagoras' theorem to solve measurement problems involving unknown lengths of right-angle triangles. Students use formulas to solve problems involving the area and circumference of circles. They solve problems of duration involving 12- and 24-hour cycles across multiple time zones.	Project	Issue date: 07/05/25 Progressive checks	14/05/25
			2.2 – Students apply the exponent laws to calculations with numbers involving positive integer exponents. They apply algebraic properties to rearrange, expand and factorise linear expressions.	Exam	-	18/06/25
Term 3	Statistics & Rates and Linear Equations	10 weeks	3.1 – Students conduct statistical investigations and explain the implications of obtaining data through sampling. They analyse and describe the distribution of data. They compare the variation in distributions of random samples of the same and different size from a given population with respect to shape, measures of central tendency and range.	Project	Issue date: 30/07/25 Progressive checks	06/08/25
			3.2 – Students use mathematical modelling to solve practical problems involving ratios, percentages and rates in measurement and financial contexts. They solve linear equations with rational solutions and one-variable inequalities, graphically and algebraically.	Exam	-	10/09/25
Term 4	Space & Linear Relations	10 weeks	4.1 – Students use 3 dimensions to locate and describe position. They identify conditions for congruency and similarity in shapes and create and test algorithms designed to test for congruency and similarity. Students apply the properties of quadrilaterals to solve problems.	Exam	-	29/10/25
			4.2 – Students graph linear relations. they use mathematical modelling to solve problems using linear relations, interpreting and reviewing the model in context. They make and test conjectures involving linear relations using digital tools.	Exam	-	03/12/25