

Learning and Assessment Overview 2024



MALANDA
STATE HIGH SCHOOL

Year 9 – 2024

Mathematics

	Unit	Length	Topics/Concepts/Skills/Inquiry	Assessment	Checkpoint	Due Date
Term 1	Pythagoras & Trigonometry	5 weeks	Students use Pythagoras' Theorem and trigonometry to find unknown sides of right-angled triangles.	Exam	-	21/02/24
	Rates & Geometry	4 weeks	Students interpret ratio and scale factors in similar figures. Students explain similarity of triangles. They recognise the connections between similarity and the trigonometric ratios.	Exam	-	20/03/24
Term 2	Unit	Length	Topics/Concepts/Skills/Inquiry	Assessment	Checkpoint	Due Date
	Measurement	6 weeks	Students calculate areas of shapes and the volume and surface area of right prisms and cylinders.	Exam	-	15/05/24
	Probability	4 weeks	Students calculate relative frequencies to estimate probabilities, list outcomes for two-step experiments and assign probabilities for those outcomes.	Exam	-	12/06/24
Term 3	Unit	Length	Topics/Concepts/Skills/Inquiry	Assessment	Checkpoint	Due Date
	Patterns & Algebra	5 weeks	Students apply the index laws to numbers and express numbers in scientific notation. They expand binomial expressions. They solve problems involving simple interest.	Exam	-	31/07/24
	Linear Relationships	5 weeks	Students find the distance between two points on the Cartesian plane and the gradient and midpoint of a line segment. They sketch linear relations.	Exam	-	04/09/24
Term 4	Unit	Length	Topics/Concepts/Skills/Inquiry	Assessment	Checkpoint	Due Date
	Statistics	5 weeks	Students compare techniques for collecting data from primary and secondary sources. They make sense of the position of the mean and median in skewed, symmetric and bi-modal displays to describe and interpret data. They construct histograms and back-to-back stem-and-leaf plots.	Assignment	Issued: 09/10/24	23/10/24
	Linear Equations & Non-linear Relationships	5 weeks	Students solve linear equations. They graph simple non-linear relations with and without the use of digital technologies and solve simple related equations.	Exam	-	27/11/24