

MATHEMATICS 7-10 CURRICULUM OVERVIEW

Year 10

TERM 1	WEEK 1			Unit 1: Deal Number Index	Unit 1: Pro	•
	WEEK 2		Unit 1: Grapes, Ground and Growth	Unit 1: Real Number, Index Notation		of an event occurring and ate to inform predictions
	WEEK 3		Students will discover the chemical changes used and minerals that influence the wine industry across the	Compare rational and irrational numbers. Identify positions on a number line. Use efficient methods for simplifying and solving problems involving exponent	and choices.	
	WEEK 4					
	WEEK 5		year and the mathematical impact on the population.	notation and laws in various contexts.	Unit 2: Mea	asurement
	WEEK 6				Students Quantify aspects world through deducing a	of the human and physical and justifying choices of
	WEEK 7			Unit 2: Probability		engths, surface area and results of calculations
	WEEK 8			Students design experiments to represent	depend on accurate measure are affected by using appro	ement and how calculations oximation.
	WEEK 9			likely outcomes of events, drawing conclusions to inform and predict		
	WEEK 10			decisions.	Unit 3: Data representa	ation and interpretation
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	WEEK 11				Students Analyse trends and patterns in data, applying ethical considerations when making recommendations.	
TERM 2	WEEK 1	Unit 3: Running a Business		Unit 3: Algebra	r ecolililerida croris.	
	WEEK 2		Unit 2: Geology in Action	Students manipulate variables of functions algebraically to interpret solutions.		
	WEEK 3	Students will develop their financial literacy and awareness of algebraic concepts through developing a business	5.00 <u>5</u> .000,000	algebraicarry to interpret solutions.		
	WEEK 4		Students explore the rock cycle, plate tectonics and probability to		Unit 4: Networks	
	WEEK 5		investigate an important industry to		Students construct di	
	WEEK 6		Developing an understanding of the	Halla de Compton and Talanamatan	optimum pathway, justify in real situations.	
	WEEK 7	Unit 4: Product Design	advancements in mining using robotics, artificial intelligence and other	Unit 4: Geometry and Trigonometry Deduce and justify choices of formulae to	TIT Teat STEURETONS.	
	WEEK 8	Students will use three dimensional design to develop an innovative product design	digital technologies.	 determine and quantify spatial relationships and trigonometric ratios. Communicate and justify solutions to geometrical problems using coordinates in 	Unit 5: Linear Relationships Students manipulate algebraic equations to illustrate and model the nature of relationships between	
	WEEK 9					
	WEEK 10	minovative product design		the Cartesian plane. Express solutions to problems in exact and approximate form.	variables. Apply algebraic behaviours and decisions i	relationships to inform
	WEEK 1			Unit 5: Equations and Functions	General and Methods	Essentials
TERM 3	WEEK 2		Unit 3: Powering South Australia	Students use mathematical modelling in a range of contexts, including making	Unit 1: Bivariate	Unit 1: Number Operations,
	WEEK 3	Unit 5: Our Place in Space		predictions and developing insights about the economy, financial systems and	statistics Students analyse trends	Time, Ratios
	WEEK 4	Students will explore our place in	Students will investigate the algebraic patterns and linear	financial choices to inform personal financial decisions.	and patterns in data, applying ethical	Students extend their proficiency with calculations required for everyday living.
	WEEK 5	space and design a mission to Mars based on their understanding of	relationships of securing different energy types and transformations	Titialiciai decisions.	considerations when making recommendations	
	WEEK 6	measurement and coding.	for the people of South Australia.	Unit 6: Graphing	Unit 2: Geometry	
	WEEK 7			Students Communicate and justify solutions to geometrical problems using coordinates in	Students engage with geometric problems and	
	WEEK 8	Unit 6: Illuminate	Unit 4: Illuminate	the Cartesian plane. Manipulate variables of functions and represent real situations	explain their mathematical thinking as	Unit 2: Geometry Students name a variety of common
	WEEK 9	Students will design and develop	Students will design and develop	graphically and algebraically to interpret solutions to inform behaviours and	they draw conclusions through analysing and	two-dimensional and three- dimensional (2D and 3D) figures and classify them according to
	WEEK 10	showpieces for the Illuminate festival, grounded in STEM	showpieces for the Illuminate festival, grounded in STEM	decisions.	quantifying geometric properties.	their geometric properties. They learn to measure and classify
				Unit 7: Statistics		angles, and use instruments to construct geometrical figures. They identify the geometry
	WEEK 2		Unit 5: Living Better	Students use sampling techniques and	Unit 3: Equations and Functions Students use mathematical	involved in structures in the built environment and landscapes.
	WEEK 2		Students will explore the advancements in technologies that	representations of data to support or refute conclusions or to promote a point	modelling in a range of contexts, including making predictions and	Unit 3: Earning
	WEEK 3		impact human physiology and draw conclusions using statistical	of view.	developing insights about the economy, financial systems and financial choices to inform	and Spending
ERM 4	WEEK 4		knowledge.	Unit 8: Measurement	personal financial decisions. Apply algebraic relationships to- inform behaviours and decisions in	Students understand the differen ways of being paid for work an the impact of taxation on thei
TER	WEEK 5	Unit8: Personal Passion Project		Students explain how the results of	real-life contexts.	income. They learn to manage the spending of their earning
	WEEK 6	Students are to complete a project		measurement and how they are affected by	EXAM Preperation	through budgeting.
	WEEK 7	based on what they are passionate about	Unit 6: Mastery of Math Skills	using approximation. Deduce and justify choices of formulae to determine and		
	WEEK 8		Students will review the development of their mathematical knowledge and	quantify spatial relationships.		
	WEEK 9		skills throughout the year.			

Year 9