

By the end of year 9...

MATHEMATICS

	Solve problems involving direct proportion. Explore the relationship between graphs &
_	equations corresponding to simple rate problems
	Apply index laws to numerical expressions with integer indices
	Express numbers in scientific notation
	Solve problems involving simple interest
	Extend & apply the index laws to variables, using positive integer indices & the zero index Apply the distributive law to the expansion of algebraic expressions, including binomials, &
	collect like terms where appropriate
	Find the distance between two points located on a Cartesian plane using a range of
	strategies, including graphing software
	Find the midpoint & gradient of a line segment (interval) on the Cartesian plane using a
	range of strategies, including graphing software Sketch linear graphs using the coordinates of two points & solve linear equations
	Graph simple non-linear relations with & without the use of digital technologies & solve
	simple related equations
	Calculate the areas of composite shapes
	Calculate the surface area & volume of cylinders & solve related problems
	Solve problems involving the surface area & volume of right prisms
	Investigate very small & very large time scales & intervals
	Use the enlargement transformation to explain similarity & develop the conditions for
	triangles to be similar
	Solve problems using ratio & scale factors in similar figures
	Investigate Pythagoras Theorem & its application to solving simple problems involving right
	angled triangles
	Use similarity to investigate the constancy of the sine, cosine & tangent ratios for a given
	angle in right-angled triangles
	Apply trigonometry to solve right-angled triangle problems
	List all outcomes for two-step chance experiments, both with & without replacement using
	tree diagrams or arrays. Assign probabilities to outcomes & determine probabilities for
	events
	Calculate relative frequencies from given or collected data to estimate probabilities of
	events involving '&' or 'or'
	Investigate reports of surveys in digital media & elsewhere for information on how data
	were obtained to estimate population means & medians
	Identify everyday questions & issues involving at least one numerical & at least one
	categorical variable, & collect data directly from secondary sources
	Construct back-to-back stem-&-leaf plots & histograms & describe data, using terms
_	including skewed, symmetric, & bi-modal
	Compare data displays using mean, median & range to describe & interpret numerical data
	sets in terms of location (centre) & spread

ENGLISH

	Understand that Standard Australian English is a living language within which the
_	creation & loss of words & the evolution of usage is ongoing
Ш	Understand that roles & relationships are developed & challenged through language &
	interpersonal skills
	Investigate how evaluation can be expressed directly & indirectly using devices, for
	example allusion, evocative vocabulary & metaphor
	Understand that authors innovate with text structures & language for specific purposes
	& effects
	Compare & contrast the use of cohesive devices in texts, focusing on how they serve to
	signpost ideas, to make connections & to build semantic associations between ideas
	Understand how punctuation is used along with layout & font variations in constructing
	texts for different audiences & purposes
	Explain how authors creatively use the structures of sentences & clauses for particular
	effects
	Understand how certain abstract nouns can be used to summarise preceding or
	subsequent stretches of text
	Analyse & explain the use of symbols, icons & myth in still & moving images & how
	theses augment meaning
	Identify how vocabulary choices contribute to specificity, abstraction & stylistic
	effectiveness
	Understand how spelling is used creatively in texts for particular effects, for example
_	characterisation & humour & to represent accents & styles of speech
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This is to be used as a guide only.

All children learn at a different pace & in different ways.

Summarised from: https://www.australiancurriculum.edu.au/