

Summary: Mathematics

Changes in Australian Curriculum Version 9.0

About the learning area

Section	Revision				
Rationale	<ul style="list-style-type: none"> limited editorial changes 				
Aims	<ul style="list-style-type: none"> limited editorial changes 				
Structure	<ul style="list-style-type: none"> Proficiency as a strand is removed changes to content strands 				
	<table border="1"> <thead> <tr> <th>Version 8.4</th> <th>Version 9.0</th> </tr> </thead> <tbody> <tr> <td> Number and algebra Measurement and geometry Statistics and probability </td> <td> Number Algebra Measurement Space Statistics Probability </td> </tr> </tbody> </table>	Version 8.4	Version 9.0	Number and algebra Measurement and geometry Statistics and probability	Number Algebra Measurement Space Statistics Probability
	Version 8.4	Version 9.0			
Number and algebra Measurement and geometry Statistics and probability	Number Algebra Measurement Space Statistics Probability				
<ul style="list-style-type: none"> all sub-strands in Mathematics removed 					
Key considerations	<ul style="list-style-type: none"> new section addressing <ul style="list-style-type: none"> proficiency in mathematics mathematical processes computation, algorithms and the use of digital tools in mathematics protocols for engaging First Nations Australians meeting the needs of diverse learners 				
Key connections	<ul style="list-style-type: none"> new section addressing <ul style="list-style-type: none"> general capabilities cross-curriculum priorities learning area connections 				
Resources	<ul style="list-style-type: none"> new section reference to downloads including <ul style="list-style-type: none"> <i>About the learning area</i> <i>Curriculum content in P–6 and 7–10</i> <i>Scope and sequence</i> <i>Support resource — optional content for post-Year 10 Mathematics pathways</i> <i>Glossary</i> <i>Comparative information about v8.4 and v9.0</i> 				

Curriculum elements

Section	Revision	
Level descriptions	<ul style="list-style-type: none"> reviewed and updated to align with revised content descriptions removal of reference to the proficiency strands 	
Achievement standards	<ul style="list-style-type: none"> reviewed to align with revised content descriptions structure changed from two paragraphs to three paragraphs 	
	Version 8.4	Version 9.0
	Understanding Skills	Number and algebra Measurement and space Statistics and probability
Content structure	<ul style="list-style-type: none"> Proficiency strands removed and embedded into the content descriptions and achievement standards change to content strands all sub-strands removed inclusion of four mathematical processes in the content strands <ul style="list-style-type: none"> mathematical modelling computational thinking statistical investigation probability experiments and simulations 	
Content descriptions (Prep–Year 6)	Added	<ul style="list-style-type: none"> explicit content on mathematical processes embedded <ul style="list-style-type: none"> mathematical modelling from Years 1–10 computational thinking from Years 3–10 statistical investigations from Years 3–10 probability experiments and simulations from Years 3–10 estimation and approximation content embedded from Years 3–10 multiplicative relationships between place value in Year 4 connecting multiplication and division as inverse operations in Year 5 line graphs in Year 5 describe changes to coordinates on a Cartesian plane in Year 6
	Moved	<ul style="list-style-type: none"> for detailed information about movement across year levels, see Content movement below
	Changed	<ul style="list-style-type: none"> explicit reference to money and financial mathematics content has been de-emphasised in all year levels except Year 3
	Removed	<ul style="list-style-type: none"> probability from Prep, Year 1 and Year 2 seasons from Year 2 shape transformation and symmetry from Year 2 and Year 3 compare area and volume of objects using familiar metric units from Year 4 enlargement transformations from Year 5

Section	Revision	
	Combined	<ul style="list-style-type: none"> multiple content descriptions identify the connections that exist within and across the strands
Content elaborations (Prep–Year 6)	<ul style="list-style-type: none"> multiple additions, deletions and refinements to reflect content refinement variety of elaborations to <ul style="list-style-type: none"> support understanding of the content support application of the content embed general capabilities and/or cross-curriculum priorities 	
Content descriptions (Years 7–10)	Added	<ul style="list-style-type: none"> explicit content on Mathematical processes embedded <ul style="list-style-type: none"> mathematical modelling from Years 1–10 computational thinking from Years 3–10 statistical investigations from Years 3–10 probability experiments and simulations from Years 3–10 estimation and approximation content embedded from Years 3–10 expanded notation (powers of 10) in Year 7 three-dimensional coordinate systems in Year 8 sampling methods and representation can be used to support or promote a point of view in Year 9 logarithmic scales in Year 10 networks in Year 10
	Moved	<ul style="list-style-type: none"> for detailed information about movement across year levels, see Content movement on the next page
	Changed	<ul style="list-style-type: none"> explicit reference to money and financial mathematics content has been de-emphasised in all year levels
	Combined	<ul style="list-style-type: none"> multiple content descriptions identify the connections that exist within and across the strands
Content elaborations (Years 7–10)	<ul style="list-style-type: none"> multiple additions, deletions and refinements to reflect content refinement variety of elaborations to <ul style="list-style-type: none"> support understanding of the content support application of the content embed general capabilities and/or cross-curriculum priorities 	

Content movement

Content	From	To
Tell time to the half-hour	Year 1	Year 2
Fractions	Year 1	Year 2
Describe features of three-dimensional objects	Year 2	Year 3
Additive pattern creation and continuation	Year 3	Year 2
Multiplication facts of two	Year 3	Year 2
Recall addition facts to 20 and related subtraction facts	Year 3	Year 2
Odd and even numbers	Year 3	Year 4
Describe, continue and create additive patterns	Year 3	Year 2
Recognising, representing and ordering numbers beyond tens of thousands	Year 4	Year 3
Describe, continue and create patterns with fractions, decimals and whole numbers	Year 5	Year 6
Record probabilities on the scale of 0–1	Year 5	Year 6
Percentages	Year 6	Year 5
Issues involving primary and secondary data sources	Year 7	Year 8
Volume of triangular prisms	Year 8	Year 7
Relational features of circles	Year 8	Year 7
Effects of outliers on data	Year 8	Year 7
Solve problems involving rational and irrational numbers	Year 8	Year 9
Similarity of shapes	Year 9	Year 8
Area of composite shapes	Year 9	Year 8
Pythagoras' theorem	Year 9	Year 8
Graphing and solving linear inequalities	Year 10	Year 8
Expand and factorise monic quadratic expressions	Year 10	Year 9
Solve simple quadratic equations	Year 10	Year 9
Solving simple exponential equations	Year 10A	Year 10
Applying Pythagoras' theorem and trigonometry to three-dimensional problems	Year 10A	Year 10



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