

Australian Curriculum			Brightpath		Mathseeds	
Year 2			Number and Algebra Score 205 - 245		Learning Program	Printables Library
Strands	Codes	Content Descriptions Students learn to:	Descriptors Students typically can:	Teaching Points Teach students how to:	Lessons, Activities, Problem Solving, Fluency, Assessments and Worksheets	Mathseeds Books Series C (Year 2)
Number	AC9M2N01	recognise, represent and order numbers to at least 1000 using physical and virtual materials, numerals and number lines	- Recognise a 3-digit number - Identify increasing and decreasing number sequences in simple number patterns	- Count in groups of twos, fives and tens backwards and forwards from 20, 100 and 1000 - Reproduce numbers in words using numerical representation, and vice versa - Read, recognise, match and represent numbers up to 4-digits - Use place value to partition and regroup 2-digit and 3-digit numbers into hundreds, tens and ones - Identify the numbers in a table with a given relationship	Lessons: 101, 105, 106, 108, 117, 122, 129, 133, 137, 140 Driving Tests: Year 2 Number 1-24	Number Student & Teacher Books Topics 1, 2, 3, 4 Skills Quiz & Learning Tiles Lessons 101 to 150
	AC9M2N02	partition, rearrange, regroup and rename two- and three-digit numbers using standard and non-standard groupings; recognise the role of a zero digit in place value notation				
	AC9M2N03	recognise and describe one-half as one of 2 equal parts of a whole and connect halves, quarters and eighths through repeated halving		Partition and represent objects as halves and quarters	Lessons: 61, 66, 132, 138 Driving Tests: Year 2 Patterns and Fractions 5, 11, 12, 14-17	Number Student & Teacher Books Topic 5 Skills Quiz & Learning Tiles Lessons 101 to 150
	AC9M2N04	add and subtract one- and two-digit numbers, representing problems using number sentences, and solve using part-part-whole reasoning and a variety of calculation strategies	- Combine tens and ones to form a 2-digit number - Identify increasing and decreasing number sequences in simple number patterns - Add and subtract single digit numbers using counting of objects and the number line	- Locate and identify the number between given numbers on a scale, including the number that is halfway between two numbers - Write or complete a number sentence for addition and subtraction - Calculate and compare totals of whole numbers - Identify the numbers in a table with a given relationship	Lessons: 95, 96, 98, 103, 108, 110, 118, 120, 124, 125, 128, 131, 134, 137, 139, 141, 142, 144, 146, 147, 148, 150 Driving Tests: Year 2 Operations 1-5, 7, 13-18, 20-28	Add and Subtract Student & Teacher Books Topics 2, 3, 5 Skills Quiz & Learning Tiles Lessons 101 to 150
	AC9M2N05	multiply and divide by one-digit numbers using repeated addition, equal grouping, arrays, and partitioning to support a variety of calculation strategies	- Match an expression to the number of objects in a picture - Identify increasing and decreasing number sequences in simple number patterns	- Represent multiplication as repeated addition using grouping and arrays - Recall multiplication facts to solve a word problem	Lessons: 111, 113, 115, 130, 136 Driving Tests: Year 2 Operations 6, 8-12, 19	Multiply and Divide Student & Teacher Books Topics 1, 2, 3 Skills Quiz & Learning Tiles Lessons 101 to 150
	AC9M2N06	use mathematical modelling to solve practical problems involving additive and multiplicative situations, including money transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the situation		- Recognise, describe, count, order and convert a mixed collection of Australian notes and single valued coins (5c, 10c, 20c or 50c) according to their value - Find the equivalent dollar and cent values in collections of mixed Australian coins and/or notes - Represent dollars and cents in decimal notation.	Lessons: 118, 125, 130, 131, 137, 139, 141, 147	Add and Subtract Student & Teacher Books Topics 4, 7 Multiply and Divide Student & Teacher Books Topic 4 Skills Quiz & Learning Tiles Lessons 101 to 150
Algebra	AC9M2A01	recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in the pattern		- Recognise and describe patterns in number sequences with a given relationship (eg adding 10 always results in the same final digit) - Represent numbers as groups of 3s - Develop simple patterns involving numbers and objects	Lessons: 117, 133, 137 Driving Tests: Year 2 Patterns and Fractions 1-4, 6-10, 13	Add and Subtract Student & Teacher Books Topic 6 Skills Quiz & Learning Tiles Lessons 101 to 150
	AC9M2A02	recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts			Lesson: 142 Driving Tests: Year 2 Operations 20, 26 Mental Minute: Addition and Subtraction Sprints	Add and Subtract Student & Teacher Books Topic 1 Skills Quiz & Learning Tiles Lessons 101 to 150 Mathseeds Mental Minute Workbook for Badges 40 to 71
	AC9M2A03	recall and demonstrate proficiency with multiplication facts for twos; extend and apply facts to develop the related division facts using doubling and halving			Mental Minute: Multiplication and Division Sprints	Mathseeds Mental Minute Workbook for Badges 40 to 71

Australian Curriculum			Brightpath		Mathseeds	
Year 2			Measurement and Geometry Score 225 - 265		Learning Program	Printables Library
Strands	Codes	Content Descriptions Students learn to:	Descriptors Students typically can:	Teaching Points Teach students how to:	Lessons, Activities, Problem Solving, Fluency, Assessments and Worksheets	Mathseeds Books Series C (Year 2)
Measurement	AC9M2M01	measure and compare objects based on length using appropriate uniform informal units and smaller units for accuracy when necessary	- Compare lengths of objects using an informal unit (e.g. finger length, hand span or piece of string) and the language: 'longer', 'shorter', 'same length' - Identify the tallest object - Count the number of objects with the same height as a given object	Use informal units of measure to compare and order objects based on length	Lessons: 104, 126, 141, 143 Driving Tests: Year 2 Measurement 6, 13-15, 21, 22	
	AC9M2M01	measure and compare objects based on capacity using appropriate uniform informal units and smaller units for accuracy when necessary		Use informal units of measure to compare and order objects based on capacity	Lesson: 116 Driving Test: Year 2 Measurement 8	
	AC9M2M01	measure and compare objects based on mass using appropriate uniform informal units and smaller units for accuracy when necessary		Use a scale to compare mass	Lesson: 135 Driving Tests: Year 2 Measurement 18, 19	
	AC9M2M02	identify common uses and represent halves, quarters and eighths in relation to shapes, objects and events		Partition and represent objects as halves and quarters	Lessons: 61, 66, 132, 138 Driving Tests: Year 2 Patterns and Fractions 5, 11, 12, 14-17	Number Student & Teacher Books Topic 5 Skills Quiz & Learning Tiles Lessons 101 to 150
	AC9M2M03	identify the date and determine the number of days between events using calendars	Name and order the months of the year	- Use a calendar to determine the number of days in a month and to locate the date, days, weeks and months - Locate a future event on a calendar	Lesson: 109 Driving Tests: Year 2 Measurement 1-5, 16, 17	
	AC9M2M04	recognise and read the time represented on an analog clock to the hour, half-hour and quarter-hour	- Describe the duration of an event using the language: 'past', 'present', 'future', 'hours', 'minutes' and 'seconds' - Read the given time on a digital clock using the language: 'hours', 'minutes' and 'seconds'	Read, identify and match time on a digital clock	Lessons: 54, 70, 87, 114 Driving Tests: Year 2 Measurement 7, 10	
	AC9M2M05	identify, describe and demonstrate quarter, half, three-quarter and full measures of turn in everyday situations	Use positional language to describe an object in varying positions	- Flip and slide an object - Select the missing object in a spatial or rotated pattern	Lesson: 102 Driving Tests: Year 2 Geometry 9, 11, 12	
Space	AC9M2SP01	recognise, compare and classify shapes, referencing the number of sides and using spatial terms such as "opposite", "parallel", "curved" and "straight"	- Draw, name and sort common 2- and 3-dimensional shapes (e.g. square, triangle, circle, prism, cube, cone, pyramid) - Use positional language to describe an object in varying positions	Draw, construct, match and sort common 2 and 3-dimensional shapes and objects (eg square, triangle, circle, prism, cube, cone, pyramid)	Lessons: 102, 119, 145, 184 Driving Tests: Year 2 Geometry 3-7, 10	
	AC9M2SP02	locate positions in two-dimensional representations of a familiar space; move positions by following directions and pathways	- Use positional language to describe an object in varying positions - Read a simple map to find the feature that is 'furthest away' or 'nearest to'	Read a simple map to identify key features and positions	Lesson: 94 Driving Tests: Year 2 Geometry 2, 8, 13	

Australian Curriculum			Brightpath		Mathseeds	
Year 3			Number and Algebra Score 250 - 290		Learning Program	Printables Library
Strands	Codes	Content Descriptions Students learn to:	Descriptors Students typically can:	Teaching Points Teach students how to:	Lessons, Activities, Problem Solving, Fluency, Assessments and Worksheets	Mathseeds Books Series D (Year 3)
Number	AC9M3N01	recognise, represent and order natural numbers using naming and writing conventions for numerals beyond 10 000	- Use place value to partition and regroup 2-digit and 3-digit numbers into hundreds, tens and ones - Read, recognise, match and represent numbers up to 4-digits - Reproduce numbers in words using numerical representation and vice versa	- Count and order numbers to and from 10 000 - Use place value to read, recognise, match, partition, regroup, rearrange and reproduce numbers up to 5-digits (ten thousands, thousands, hundreds, tens, ones) - Arrange numbers from smallest to biggest, and vice versa (descending/ascending) - Use place value to add and subtract 4- and 5-digit numbers	Lessons: 151, 156, 161	Number Student & Teacher Books Topics 1, 2, 3
	AC9M3N02	recognise and represent unit fractions including $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$ and their multiples in different ways; combine fractions with the same denominator to complete the whole	Partition and represent objects as halves and quarters	- Locate a half and a quarter on the number line - Partition, compare, represent and order objects as halves, quarters and eighths to solve problems	Lessons: 160, 175, 180, 191, 197	Fractions Student & Teacher Books Topics 1, 2
	AC9M3N03	add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator		- Write or complete a number sentence for addition and subtraction - Solve a range of problems involving addition and subtraction of 2- and 3-digit numbers	Lessons: 163, 170, 173, 178, 183	Addition and Subtraction Student & Teacher Books Topics 1, 3
	AC9M3N04	multiply and divide one- and two-digit numbers, representing problems using number sentences, diagrams and arrays, and using a variety of calculation strategies	- Represent multiplication as repeated addition using grouping and arrays - Recall multiplication facts to solve a word problem	- Represent multiplication as repeated addition using grouping and arrays - Recall multiplication facts to solve a word problem - Use multiplication facts to solve division problems, and vice versa - Apply multiplication and division to solve problems involving rate, time and money	Lessons: 155, 158, 165, 168, 171, 176, 181, 186, 190, 193, 196, 199	Multiply and Divide Student & Teacher Books Topics 1, 3, 5
	AC9M3N05	estimate the quantity of objects in collections and make estimates when solving problems to determine the reasonableness of calculations			Lessons: 155, 157, 188, 196	Addition and Subtraction Student & Teacher Books Topic 5 Multiply and Divide Student & Teacher Books Topic 5, 6 Problem Solving Student & Teacher Book
	AC9M3N06	use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate problems using number sentences and choose calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation				
	AC9M3N07	follow and create algorithms involving a sequence of steps and decisions to investigate numbers; describe any emerging patterns	- Recognise and describe patterns in number sequences with a given relationship (eg adding 10 always results in the same final digit) - Develop simple patterns involving numbers and objects	- Create addition, subtraction or multiplication number patterns - Find the position of a term in a number pattern with a constant difference and continue the pattern - Analyse a pattern and identify its repeating part to find the next number	Lessons: 153, 195	Addition and Subtraction Student & Teacher Books Topic 4
Algebra	AC9M3A01	recognise and explain the connection between addition and subtraction as inverse operations, apply to partition numbers and find unknown values in number sentences		Solve a number sentence of the form $x - b = c$	Lessons: 142, 163, 195 Mental Minute: Addition and Subtraction Sprints	Addition and Subtraction Student & Teacher Books Topics 1, 2 Mental Minute Workbook Badges 107 - 145
	AC9M3A02	extend and apply knowledge of addition and subtraction facts to 20 to develop efficient mental strategies for computation with larger numbers without a calculator				
	AC9M3A03	recall and demonstrate proficiency with multiplication facts for 3, 4, 5 and 10; extend and apply facts to develop the related division facts	Represent numbers as groups of 3s	Compare the difference between dividing a set of objects into three equal groups and dividing the same set of objects into groups of three	Lessons: 155, 158, 165, 168, 171, 176, 181, 186, 190, 193, 199 Mental Minute: Multiplication and Division Sprints	Multiply and Divide Student & Teacher Books Topics 2, 3, 4 Mental Minute Workbook Badges 107 - 145

Australian Curriculum			Brightpath		Mathseeds	
Year 3			Measurement and Geometry Score 250 - 290		Learning Program	Printables Library
Strands	Codes	Content Descriptions Students learn to:	Descriptors Students typically can:	Teaching Points Teach students how to:	Lessons, Activities, Problem Solving, Fluency, Assessments and Worksheets	Mathseeds Books Series D (Year 3)
Measurement	AC9M3M01	identify which metric units are used to measure everyday items; use measurements of familiar items and known units to make estimates	- Read a ruler to find the length of an object in centimetres - Identify the tallest object - Count the number of objects with the same height as a given object - Use a scale to compare mass - Use informal units of measure to compare and order objects based on length and capacity		Lessons: 154, 172, 182, 192, 198	
	AC9M3M02	measure and compare objects using familiar metric units of length and instruments with labelled markings				
	AC9M3M03	recognise and use the relationship between formal units of time including days, hours, minutes and seconds to estimate and compare the duration of events	- Use a calendar to determine the number of days in a month and to locate the date, days, weeks and months - Locate a future event on a calendar - Read, identify and match time on a digital clock	- Read, identify and match time on digital and analog clocks using the language: ‘seconds’, ‘minutes’, ‘hours’, ‘quarter’, ‘half’, ‘past’, ‘to’, ‘am’ and ‘pm’ - Convert between units of time - Identify the months of the seasons using a calendar	Lessons: 123, 127, 162, 179, 185, 189	
	AC9M3M04	describe the relationship between the hours and minutes on analog and digital clocks, and read the time to the nearest minute				
	AC9M3M05	identify angles as measures of turn and compare angles with right angles in everyday situations		Identify angles in familiar situations including the hands on a clock face	Lesson: 177	Geometry Student & Teacher Books Topic 2
	AC9M3M06	recognise the relationships between dollars and cents and represent money values in different ways	- Recognise, describe, count, order and convert a mixed collection of Australian notes and single valued coins (5c, 10c, 20c or 50c) according to their value - Find the equivalent dollar and cent values in collections of mixed Australian coins and/or notes - Represent dollars and cents in decimal notation	- Add and subtract dollars and cents in decimal notation - Calculate quantities or costs using multiplication and/or division facts	Lesson: 159	
Space	AC9M3SP01	make, compare and classify objects, identifying key features and explaining why these features make them suited to their uses	Combine common shapes to create a compound (composite) shape	- Calculate how many more objects (straws, toothpicks) are required to complete the skeleton of a cube - Match an object to its net	Lessons: 169	Geometry Student & Teacher Books Topics 1, 3 & 4
	AC9M3SP02	interpret and create two-dimensional representations of familiar environments, locating key landmarks and objects relative to each other	Read a simple map to identify key features and positions	Draw an informal map from a set of directions	Lessons: 121, 164	Geometry Student & Teacher Books Topic 5

Australian Curriculum			Brightpath		Mathseeds	
Year 4			Number and Algebra Score 275 - 315		Learning Program	Printables Library
Strands	Codes	Content Descriptions Students learn to:	Descriptors Students typically can:	Teaching Points Teach students how to:	Lessons, Activities, Problem Solving, Fluency, Assessments and Worksheets	Student Book and Teacher Book
Number	AC9M4N01	recognise and extend the application of place value to tenths and hundredths and use the conventions of decimal notation to name and represent decimals	- Use place value to partition and regroup 2-digit and 3-digit numbers into hundreds, tens and ones - Read, recognise, match and represent numbers up to 4-digits - Reproduce numbers in words using numerical representation and vice versa	- Count and order numbers to and from 10 000 - Use place value to read, recognise, match, partition, regroup, rearrange and reproduce numbers up to 5-digits (ten thousands, thousands, hundreds, tens, ones) - Arrange numbers from smallest to biggest, and vice versa (descending/ascending) - Use place value to add and subtract 4- and 5-digit numbers - Write or complete a number sentence for addition and subtraction	Lessons: Number Unit 5 Lessons 2, 3, 4 Problem Solving Activity: First and Last	Year 4 Numbers, Fractions and Decimals
	AC9M4N02	explain and use the properties of odd and even numbers	Identify numbers as even or odd including those represented in a set	Apply the properties of odd and even numbers to solve simple problems involving the four operations	Lessons: Operations Unit 12 Lessons 1, 2 Problem Solving Activity: An Age Old Problem	Year 4 Operations and Algebra
	AC9M4N03	find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation	Partition and represent objects as halves and quarters.	- Locate a half and a quarter on the number line - Partition, compare, represent and order objects as halves, quarters and eighths to solve problems	Lessons: Fractions Unit 2 Lessons 1, 2, 3, 4 Unit 3 Lessons 1, 2, 3 Unit 4 Lessons 1, 2, 3, 4 Problem Solving Activities: Woolly Thinking, Reward Cards, Fraction Robot	Year 4 Numbers, Fractions and Decimals
	AC9M4N04	count by fractions including mixed numerals; locate and represent these fractions as numbers on number lines				
	AC9M4N05	solve problems involving multiplying or dividing natural numbers by multiples and powers of 10 without a calculator, using the multiplicative relationship between the place value of digits	Represent multiplication as repeated addition using grouping and arrays	Represent and apply multiplication as repeated addition	Lessons: Number Unit 4 Lessons 1, 2, 3, 4 Operations Unit 10 Lesson 1 Problem Solving Activity: More, More, More	Year 4 Numbers, Fractions and Decimals
	AC9M4N06	develop efficient strategies and use appropriate digital tools for solving problems involving addition and subtraction, and multiplication and division where there is no remainder	Recall multiplication facts to solve a word problem	- Use multiplication facts to solve division problems, and vice versa - Apply multiplication and division to solve problems involving rate, time and money	Lessons: Operations Unit 7 Lessons 1, 2 Unit 8 Lessons 1, 2 Unit 10 Lessons 2, 3 Unit 11 Lessons 2, 3 Unit 12 Lessons 3, 4 Problem Solving Activities: Problem Algorithms, Bug Racing, Okapi Operations	Year 4 Operations and Algebra
	AC9M4N07	choose and use estimation and rounding to check and explain the reasonableness of calculations including the results of financial transactions	- Add and subtract dollars and cents in decimal notation - Calculate quantities or costs using multiplication and/or division facts		Lessons: Number Unit 5 Lesson 1 Operations Unit 7 Lesson 3	Year 4 Numbers, Fractions and Decimals Year 4 Operations and Algebra
	AC9M4N08	use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate the problems using number sentences and choose efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation			Lessons: Operations Unit 8 Lesson 3 Unit 14 Lessons 1, 2, 3 Problem Solving Activity: Wolf vs Rabbit	Year 4 Operations and Algebra
	AC9M4N09	follow and create algorithms involving a sequence of steps and decisions that use addition or multiplication to generate sets of numbers; identify and describe any emerging patterns	- Create addition, subtraction or multiplication number patterns - Find the position of a term in a number pattern with a constant difference and continue the pattern - Analyse a pattern and identify its repeating part to find the next number		Lessons: Operations Unit 13 Lesson 1	Year 4 Operations and Algebra
Algebra	AC9M4A01	find unknown values in numerical equations involving addition and subtraction, using the properties of numbers and operations	Solve a number sentence of the form $x - b = c$		Lessons: Operations Unit 7 Lesson 4 Problem Solving Activity: A Magic Square	Year 4 Operations and Algebra
	AC9M4A02	recall and demonstrate proficiency with multiplication facts up to 10×10 and related division facts; extend and apply facts to develop efficient mental strategies for computation with larger numbers without a calculator	Compare the difference between dividing a set of objects into three equal groups and dividing the same set of objects into groups of three		Lessons: Operations Unit 9 Lessons 1, 2, 3, 4 Unit 11 Lesson 1 Unit 13 Lessons 2, 3 Problem Solving Activities: How Many Cookies?, Timing Is Everything	Year 4 Operations and Algebra

Australian Curriculum			Brightpath		Mathseeds	
Year 4			Measurement and Geometry Score 290 - 330		Learning Program	Printables Library
Strands	Codes	Content Descriptions Students learn to:	Descriptors Students typically can:	Teaching Points Teach students how to:	Lessons, Activities, Problem Solving, Fluency, Assessments and Worksheets	Student Book and Teacher Book
Measurement	AC9M4M01	interpret unmarked and partial units when measuring and comparing attributes of length, mass, capacity, duration and temperature, using scaled and digital instruments and appropriate units	- Use informal units of measure to compare and order objects based on length, area and capacity - Use a scale to compare mass		NA	
	AC9M4M02	recognise ways of measuring and approximating the perimeter and area of shapes and enclosed spaces, using appropriate formal and informal units	Use informal units of measure (eg paperclips, blocks, etc) to calculate the perimeter of a rectangle		NA	
	AC9M4M03	solve problems involving the duration of time including situations involving “am” and “pm” and conversions between units of time	- Read, identify and match time on digital and analog clocks using the language: ‘seconds’, ‘minutes’, ‘hours’, ‘quarter’, ‘half’, ‘past’, ‘to’, ‘am’ and ‘pm’ - Convert between units of time		NA	
	AC9M4M04	estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle	Select the missing object in a spatial or rotated pattern	- Select the image forming a right angle - Select the missing object meeting given criteria in a spatial or rotated pattern	Lessons: Geometry Unit 7 Lessons 1, 2, 3 Problem Solving Activity: Equation Angles	Year 4 Geometry
Space	AC9M4SP01	represent and approximate composite shapes and objects in the environment, using combinations of familiar shapes and objects	- Draw, construct, match and sort common 2 and 3-dimensional shapes (e.g. square, triangle, circle, prism, cube, cone, pyramid) - Identify the features of 2 and 3- dimensional shapes (lines, curves, edges and corners, faces, edges)	Name the two-dimensional shapes found in a compound (composite) shape, and vice versa	Lessons: Geometry Unit 5 Lessons 1, 2, 3, 4 Problem Solving Activity: Tangram Puzzles	Year 4 Geometry
	AC9M4SP02	create and interpret grid reference systems using grid references and directions to locate and describe positions and pathways	Read a simple map to identify key features and positions	- Follow compass directions, locate positions and identify cells on a map using landmarks and grid references - Describe routes using landmarks and compass directions	Lessons: Geometry Unit 8 Lessons 1, 2, 3 Problem Solving Activity: Delivery Route	Year 4 Geometry
	AC9M4SP03	recognise line and rotational symmetry of shapes and create symmetrical patterns and pictures, using dynamic geometric software where appropriate	Flip and slide an object	Draw the mirror image of an object	Lessons: Geometry Unit 6 Lessons 1, 2, 3 Problem Solving Activity: Symmetrical Designs	Year 4 Geometry