Lesson Overview Year 4 • Number and Fractions

Mathseeds PRiME

Strand	Unit number	Unit Name	Lesson number	Lesson name	Victorian Curriculum v2 codes	Lesson outcomes Students will be able to:
Number	4	Numbers to 100 000	1	Numbers to 100 000	VC2M3N02	Read and write multi-digit numbers in numerals, number names, and expanded form.
			2	Place Value	VC2M3N02	Recognise that a digit in one place represents ten times the value of the place to its right.
			3	Comparing Digits	VC2M3N02	Use place value understanding to compare digits in numbers.
			4	Comparing Numbers	VC2M3N02	Compare and order multi-digit numbers based on the digits in each place.
	5	Numbers and Decimals	1	Rounding Numbers	VC2M4N07	Use place value understanding to round multi-digit whole numbers to any place value.
			2	Decimal Places	VC2M4N01	Use division by 10 to extend the place-value system into decimal places.
			3	Compare Decimals	VC2M4N01	Compare two decimals to hundredths by reasoning about their size using place value.
			4	Money in Decimals	VC2M4N08	Represent amounts of money in decimal form with two decimal places and use the symbols $ and c.
Fractions	2	Counting Fractions	1	Mixed Numerals	VC2M4N04	Identify mixed numerals and show how they are composed.
			2	Fraction Number Lines	VC2M4N04	Count, locate and represent fractions, including mixed numerals, on a number line.
			3	Compare Fractions: Draw a picture	VC2M4N04	Compare fractions with different numerators and denominators by drawing fraction shapes and arrays.
			4	Compare Fractions: Diagrams	VC2M4N04	Compare fractions with different numerators and denominators using a fraction wall or number line.
	3	Equivalent Fractions	1	Equivalent Fractions: Draw a diagram	VC2M4N03	Use shapes, fraction strips and number lines to find and represent equivalent fractions.
			2	Fraction Families	VC2M4N03	Investigate equivalent fractions by exploring families of fractions on a fraction wall.
			3	Convert Fractions: Count the Parts	VC2M4N04	Convert between mixed numbers and fractions using diagrams and decomposition.
	4	Decimal Fractions	1	Tenths and Hundredths	VC2M4N03	Express a fraction with a denominator of 10 as an equivalent fraction with a denominator of 100.
			2	Converting Fractions and Decimals	VC2M4N03	Write fractions with denominators 10 or 100 as decimals, and vice versa.
			3	Decimal Number Lines	VC2M4N01	Make connections between 10ths, 100ths and their equivalent decimals on the number line.
			4	Equivalent Fractions and Decimals	VC2M4N03	Find equivalent decimals for halves, quarters and fifths by converting them to 10ths and 100ths.

Mathseeds PRiME

Strand	Unit number	Unit Name	Lesson number	Lesson name	Victorian Curriculum v2 codes	Lesson outcomes *Students will be able to:*
Operations	**7**	**Addition and Subtraction Strategies 2**	1	Addition Strategies	VC2M4N06	Use place value understanding to assist calculations.
			2	Subtraction Strategies	VC2M4N06	Use place value understanding and the inverse operation to assist calculations.
			3	Making Calculations Easier	VC2M4N06	Use rounding and an understanding of difference to assist calculations.
			4	Finding Unknown Quantities	VC2M4A01	Find unknown quantities in number sentences involving addition and subtraction.
	8	**Addition and Subtraction Algorithms**	1	Algorithms: Addition	VC2M4N06	Fluently add multi-digit whole numbers using the standard algorithm.
			2	Algorithms: Subtraction	VC2M4N06	Fluently subtract multi-digit whole numbers using the standard algorithm.
			3	Word Problems: Add & Subtract	VC2M4N09	Solve multi-step word problems involving addition and subtraction of whole numbers.
	9	**Multiplication Thinking**	1	The Times Tables	VC2M4A02	Recall multiplication facts up to 10 × 10.
			2	Factors	VC2M4N06	Identify and describe factors of whole numbers from 1 to 100.
			3	Multiples within 100	VC2M4N06	Investigate multiples within the times tables.
			4	Equivalent Multiplication Facts	VC2M4N06	Recall multiplication facts up to 10 × 10 to find equations with the same answer.
	10	**Multiplication Strategies**	1	Multiplication by 10, 100 and 1000	VC2M4N05	Multiply using strategies based on place value.
			2	Mental Maths: Multiplication 1	VC2M4N06	Multiply using strategies based on the commutative and associative properties of multiplication.
			3	Mental Maths: Multiplication 2	VC2M4N06	Multiply using a strategy based on the distributive property of multiplication.
	11	**Division Strategies**	1	Division Facts	VC2M4A02	Recall division facts related to the multiplication facts up to 10 × 10.
			2	Mental Maths: Division Strategies 1	VC2M4N06	Find quotients using the inverse relationship between multiplication and division.
			3	Mental Maths: Division Strategies 2	VC2M4N06	Find quotients using the distributive property of division.
	12	**Operations with Odd and Even Numbers**	1	Odds and Evens in Addition and Subtraction	VC2M3N01	Investigate the properties of odd and even numbers in addition and subtraction equations.
			2	Odds and Evens in Multiplication	VC2M3N01	Investigate the properties of odd and even numbers in multiplication equations.
			3	Doubling	VC2M4A02	Use doubling as a mental strategy for multiplication by 2, 4 and 8.
			4	Halving	VC2M4A02	Use halving as a mental strategy for division by 2, 4 and 8 where there is no remainder.
	13	**Multiplication Patterns**	1	Multiplication Number Sequences	VC2M4N10	Explore and describe number patterns resulting from performing multiplication.
			2	Multiplication Patterns in a 100 Square	VC2M4N10	Explore and describe patterns of multiples in a 100 square.
			3	The Multiplication Chart	VC2M4N10	Find answers and explore patterns in the multiplication chart.
	14	**Word Problems**	1	Word Problems: Multiplication	VC2M4N09	Solve multi-step word problems involving multiplication of whole numbers.
			2	Word Problems: Division	VC2M4N09	Solve multi-step word problems involving division of whole numbers.
			3	Word Problems: Money	VC2M4N09	Solve problems involving purchases and the calculation of change to the nearest five cents.

Mathseeds PRiME

Strand	Unit number	Unit Name	Lesson number	Lesson name	Victorian Curriculum v2 codes	Lesson outcomes *Students will be able to:*
Geometry	5	Shapes and Objects	1	Combining 2D Shapes	VC2M4SP02	Put 2D shapes together to make composite shapes.
			2	Splitting 2D Shapes	VC2M4SP02	Split 2D shapes into smaller shapes.
			3	Classify 3D Objects	VC2M4SP01	Classify 3D figures based on curved surfaces, flat faces, base shapes and vertices.
			4	Views of 3D Objects	VC2M4SP01	Identify 3D objects based on the 2D shapes that can be seen when looking at them from a specific viewpoint.
	6	Shape Movements	1	Rotation	VC2M4SP04	Identify clockwise, anticlockwise, quarter, half and three-quarter turns.
			2	Symmetrical Designs	VC2M4SP04	Use flips and reflections to make symmetrical designs.
			3	Tessellation	VC2M4SP04	Use flips, slides and turns to tessellate shapes and identify shapes that do/do not tessellate.
	7	Angles	1	Types of angles 1	VC2M4M04	Identify right, acute and obtuse angles, including in two-dimensional shapes.
			2	Types of angles 2	VC2M4M04	Identify straight and reflex angles and revolutions.
			3	Classifying Angles	VC2M4M04	Classify angles from 1-360 degrees by thinking about how they relate to right angles.
	8	Maps	1	Compass Directions	VC2M4SP03	Learn the compass directions, including the four cardinal points and the ordinal points between them.
			2	Map Legends and Scales	VC2M4SP03	Use simple scales and legends to interpret information contained in basic maps.
			3	Using a Map	VC2M4SP03	Use simple scales, legends and directions to interpret information contained in basic maps.