Mathseeds Prime Lessons and the Victorian Curriculum

YEAR 4			Prime Lessons	Printable Resources	Additional Resources
Strand	**Code**	**Outcome**	**Online Lessons with Assessments & Problem Solving Activities**	**Lesson Summary, Worksheets, Answers**	**Student book & Teacher book**
Number	VC2M4N01	recognise and extend the application of place value to tenths and hundredths and use the conventions of decimal notation to name and represent decimals	NUMBER Unit 4 Numbers to 100 000: Lesson 1, 2, 3, 4 Problem Solving Activity: More, more, more NUMBER Unit 5 Numbers and Decimals: Lesson 2, 3 Problem Solving Activity: First and Last FRACTION Unit 4 Decimal Fractions: Lesson 1, 2, 3, 4 Problem Solving Activity: Fraction Robot		Year 4 Numbers, Fractions and Decimals
	VC2M4N02	investigate number sequences involving multiples of 3, 4, 6, 7, 8 and 9	OPERATIONS Unit 13 Multiplication Patterns: Lesson 1		Year 4 Operations and Algebra
	VC2M4N03	find equivalent representations of fractions using related denominators and make connections between fractions and decimal notation	FRACTIONS Unit 3 Equivalent Fractions: Lesson 1, 2 Problem Solving Activity: Reward Cards FRACTIONS Unit 4 Decimal Fractions: Lesson 1, 2, 3, 4 Problem Solving Activity: Fraction Robot		Year 4 Numbers, Fractions and Decimals
	VC2M4N04	count by multiples of quarters, halves and thirds, including mixed numerals; locate and represent these fractions as numbers on number lines	FRACTIONS Unit 2 Counting Fractions: Lesson 1, 2, 3, 4 Problem Solving Activity: Woolly Thinking FRACTIONS Unit 3 Equivalent Fractions: Lesson 1, 2 Problem Solving Activity: Reward Cards FRACTIONS Unit 4 Decimal Fractions: Lesson 3		
	VC2M4N05	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	OPERATIONS Unit 10 Multiplication Strategies: Lesson 1		
	VC2M4N06	develop efficient mental and written strategies and use appropriate digital tools for solving problems involving addition and subtraction, and multiplication and division where there is no remainder	OPERATIONS Unit 7 Addition and Subtraction Strategies 2: Lesson 1, 2, 3 Problem Solving Activity: A Magic Square OPERATIONS Unit 8 Addition and Subtraction Algorithms: Lesson 1, 2 OPERATIONS Unit 9 Multiplication Thinking: Lesson 1, 2, 3, 4 OPERATIONS Unit 10 Multiplication Strategies: Lesson 2, 3 Problem Solving Activity: Bug Racing OPERATIONS Unit 11 Division Strategies: Lesson 2, 3 Problem Solving Activity: Okapi Operations OPERATIONS Unit 12 Operations with Odd and Even Numbers: Lesson 1, 2 Problem Solving Activity: An Age Old Problem		Year 4 Operations and Algebra
	VC2M4N07	choose and use estimation and rounding to check and explain the reasonableness of calculations, including the results of financial transactions	NUMBER Unit 5 Numbers and Decimals: Lesson 1		Year 4 Numbers, Fractions and Decimals; Year 4 Operations and Algebra
	VC2M4N08	solve problems involving purchases and the calculation of change to the nearest 5 cents with and without digital tools	NUMBER Unit 5 Numbers and Decimals: Lesson 4		
	VC2M4N09	use mathematical modelling to solve practical problems that involve 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	OPERATIONS Unit 8 Addition and Subtraction Algorithms: Lesson 3 Problem Solving Activity: Problem Algorithms OPERATIONS Unit 9 Multiplication Thinking: Lesson 4 Problem Solving Activity: How Many Cookies? OPERATIONS Unit 14 Word Problems: Lesson 1, 2, 3 Problem Solving Activity: Wolf vs Rabbit		
	VC2M4N10	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	OPERATIONS Unit 13 Multiplication Patterns: Lesson 1, 2, 3 Problem Solving Activity: Timing is everything		Year 4 Operations and Algebra
Algebra	VC2M4A01	find unknown values in numerical equations involving addition and subtraction, using the properties of numbers and operations	OPERATIONS Unit 7 Addition and Subtraction Strategies 2: Lesson 4		
	VC2M4A02	recall and demonstrate proficiency with multiplication facts up to 10 × 10 and related division facts, and explain the patterns in these; extend and apply facts to develop efficient mental and written strategies for computation with larger numbers without a calculator	OPERATIONS Unit 9 Multiplication Thinking: Lesson 1 OPERATIONS Unit 11 Division Strategies: Lesson 1 OPERATIONS Unit 12 Operations with Odd and Even Numbers: Lesson 3, 4		
Measurement	VC2M4M04	estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle	GEOMETRY Unit 7 Angles: Lesson 1, 2, 3 Problem Solving Activity: Equation Angles		Year 4 Geometry
Space	VC2M4SP01	explain and compare the geometric properties of two-dimensional shapes and three-dimensional objects	GEOMETRY Unit 5 Shapes and Objects: Lesson 3, 4 Problem Solving Activity: Tangram Puzzles		
	VC2M4SP02	represent and approximate composite shapes and objects in the environment, using combinations of familiar shapes and objects	GEOMETRY Unit 5 Shapes and Objects: Lesson 1, 2		
	VC2M4SP03	create and interpret grid reference systems using grid references and directions to locate and describe positions and pathways	GEOMETRY Unit 8 Maps: Lesson 1, 2, 3 Problem Solving Activity: Delivery Route		
	VC2M4SP04	recognise line and rotational symmetry of shapes and create symmetrical patterns and pictures, using dynamic geometry software where appropriate	GEOMETRY Unit 6 Shape Movements: Lesson 1, 2, 3 Problem Solving Activity: Symmetrical Designs		