



Mathseeds Prime Lessons and the Australian Curriculum V9

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	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	NUMBER Unit 5 Numbers and Decimals: Lesson 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	OPERATIONS Unit 12 Operations with Odd and Even Numbers: Lesson 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	FRACTIONS Unit 2 Counting Fractions: Lesson 3, 4 FRACTIONS Unit 3 Equivalent Fractions: Lesson 1, 2 Problem Solving Activity: Reward Cards FRACTIONS Unit 4 Decimal Fractions: Lesson 1, 2, 4 Problem Solving Activity: 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	FRACTIONS Unit 2 Counting Fractions: Lesson 1, 2 Problem Solving Activity: Woolly Thinking FRACTIONS Unit 3 Equivalent Fractions: Lesson 3 FRACTIONS Unit 4 Decimal Fractions: Lesson 3		
	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	NUMBER Unit 4 Numbers to 100 000: Lesson 1, 2, 3, 4 Problem Solving Activity: More, more, more OPERATIONS Unit 10 Multiplication Strategies: Lesson 1		
	AC9M4N06	develop efficient strategies and use appropriate digital tools for solving problems involving addition and subtraction, multiplication and division where there is no remainder	OPERATIONS Unit 7 Addition and Subtraction Strategies 2: Lesson 1, 2, Problem Solving Activity: Problem Algorithms OPERATIONS Unit 8 Addition and Subtraction Algorithms: Lesson 1, 2 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 3, 4		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	NUMBER Unit 5 Numbers and Decimals: Lesson 1 OPERATIONS Unit 7 Addition and Subtraction Strategies 2: 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	OPERATIONS Unit 8 Addition and Subtraction Algorithms: Lesson 3 OPERATIONS Unit 14 Word Problems: Lesson 1, 2, 3 Problem Solving Activity: Wolf vs Rabbit		Year 4 Operations and Algebra
	AC9M4N09	follow and create algorithms involving and 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		
ALGEBRA	AC9M4A01	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, 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	OPERATIONS Unit 9 Multiplication Thinking Lesson 1, 2, 3, 4 Problem Solving Activity: How Many Cookies? OPERATIONS Unit 11 Division Strategies: Lesson 1 OPERATIONS Unit 13 Multiplication Patterns: Lesson 2, 3 Problem Solving Activity: Timing Is Everything		
SPACE	AC9M4SP01	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, 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	GEOMETRY Unit 8 Maps: Lesson 1, 2, 3 Problem Solving Activity: Delivery Route		
	AC9M4SP03	recognise line and rotational symmetry of shapes and create symmetrical patterns and pictures, using dynamic geometric software where appropriate	GEOMETRY Unit 6 Shape Movements: Lesson 1, 2, 3 Problem Solving Activity: Symmetrical Designs		
MEASUREMENT	AC9M4M04	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		