



# Year 4 Overview

Week	Term 1	Term 2	Term 3	Term 4
1	<b>Whole Numbers</b> Read and represent numbers to 100 000. Understand and compare place value.	<b>Fractions</b> Understand mixed numerals and how to place fractions on a number line.	<b>Equivalent Fractions</b> Make equivalent fractions and recognise fraction families.	<b>Decimals</b> Convert between decimals and fractions. Place decimals on number lines.
	<b>Whole Numbers</b> Compare and round off numbers.	<b>Fractions</b> Compare fractions using pictures and diagrams.	<b>Mixed Operations</b> Learn the division facts. Use mental calculation strategies to solve divisions.	<b>Decimals</b> Explore decimals as place value.
3	<b>Addition and Subtraction</b> Use mental and written addition and subtraction strategies.	<b>Multiplication</b> Learn the times tables and understand factors and multiples.	<b>Mixed Operations</b> Explore patterns to find rules for operations with odd and even numbers.	<b>Decimals</b> Compare decimals and use decimal notation in currency problems.
	<b>Addition and Subtraction</b> Find unknown numbers in addition and subtraction equations. Understand how vertical algorithms work.	<b>Multiplication</b> Find equivalent multiplication facts and multiply by multiples of 10, 100, 1000.	<b>Mixed Operations</b> Learn halving and doubling strategies for mental calculations.	<b>Word Problems</b> Interpret and calculate the answers to word problems.
5	<b>Addition and Subtraction</b> Solve addition and subtraction word problems using mental and written strategies.	<b>Multiplication</b> Use mental calculation strategies to solve multiplication problems.	<b>Mixed Operations</b> Explore patterns in multiplication.	<b>Word Problems</b> Solve word problems.
				<b>Maps</b> Learn about the compass, and map scales and legends.
6	<b>2D Shapes</b> Compose 2D shapes to make larger shapes and split 2D shapes into smaller shapes. Identify the 2D shapes.	<b>2D Space</b> Investigate rotation, symmetry and tessellation with 2D shapes.	<b>Angles</b> Classify angles from acute to a revolution. Compare angles relative to right angles.	<b>Maps</b> Interpret maps using a compass, scale and legend.
	<b>3D Objects</b> Explore the features of 3D objects and their classifications. Investigate different views of 3D shapes.			
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# Term 1

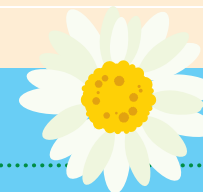
Topic	Whole numbers		Addition & Subtraction			2D & 3D	
Content	Read and represent numbers to 100 000. Understand and compare place value. Compare and round off numbers.		Use mental and written addition and subtraction strategies. Find unknown numbers in equations. Understand how vertical algorithms work. Solve addition and subtraction word problems using mental and written strategies.			Compose 2D shapes and split 2D shapes. Identify 2D shapes. Explore the features of 3D objects. Investigate different views of 3D shapes.	
Curriculum	<b>AC9M3N01</b> recognise, represent and order natural numbers using naming and writing conventions for numerals beyond 10 000 <b>AC9M4N05</b> use the multiplicative relationship between the place value of digits		<b>AC9M4N06</b> develop strategies for solving problems involving addition & subtraction <b>AC9M4N07</b> choose and use estimation and rounding to check and explain the reasonableness of calculations including the results of financial transactions <b>AC9M4N08</b> use mathematical modelling to solve problems involving additive situations <b>AC9M4A01</b> find unknown values in equations involving addition and subtraction			<b>AC9M4SP01</b> represent composite shapes, using combinations of familiar shapes <b>AC9M3SP01</b> make, compare and classify objects, identifying key features	
Prime Units	<b>Number Unit 4:</b> Numbers to 100 000		<b>Operations Unit 7:</b> Addition and Subtraction Strategies 2 <b>Operations Unit 8:</b> Addition & Subtraction Algorithms			<b>Geometry Unit 5:</b> Shapes and Objects	
Week	1	2	3	4	5	6	7
Online Learning Program	<b>Lesson:</b> NUM.4.1 Numbers to 100 000	<b>Lesson:</b> NUM.4.4 Comparing Numbers	<b>Lesson:</b> OPS.7.1 Addition Strategies	<b>Lesson:</b> OPS.7.4 Finding Unknown Quantities	<b>Assessment:</b> Check Up Quiz	<b>Lesson:</b> GEO.5.1 Combining 2D Shapes	<b>Lesson:</b> GEO.5.3 Classify 3D Objects
	<b>Lesson:</b> NUM.4.2 Place Value	<b>Problem Solving:</b> More, More, More	<b>Lesson:</b> OPS.7.2 Subtraction Strategies	<b>Problem Solving:</b> A Magic Square	<b>Lesson:</b> OPS.8.3 Word Problems: Add & Subtract	<b>Lesson:</b> GEO.5.2 Splitting 2D Shapes	<b>Lesson:</b> GEO.5.4 Views of 3D Objects
	<b>Assessment:</b> Check Up Quiz	<b>Assessment:</b> End of Unit Quiz	<b>Assessment:</b> Check Up Quiz	<b>Assessment:</b> End of Unit Quiz	<b>Problem Solving:</b> Problem Algorithms	<b>Assessment:</b> Check Up Quiz	<b>Problem Solving:</b> Tangram Puzzles
	<b>Lesson:</b> NUM.4.3 Comparing Digits	<b>Lesson:</b> NUM.5.1 Rounding Numbers	<b>Lesson:</b> OPS.7.3 Making Calculations Easier	<b>Lesson:</b> OPS.8.1 Algorithms: Addition	<b>Assessment:</b> End of Unit Quiz	<b>Fantastic Fact:</b> Strong and Shapely	<b>Assessment:</b> End of Unit Quiz
	<b>Fantastic Fact:</b> Shipwreck		<b>Fantastic Fact:</b> The Abacus	<b>Lesson:</b> OPS.8.2 Algorithms: Subtraction	<b>Fantastic Fact:</b> Plus and Minus Signs		
Games	Guess My Number, Sudoku		On Target, Tikku Tikku			Matchstick Puzzles – Numbers and Shapes	
Printables Library	<b>Year 4 Numbers, Fractions &amp; Decimals book</b> Topic 1: Numbers		<b>Year 4 Operations and Algebra book</b> Topic 1: Addition and Subtraction			<b>Year 4 Geometry book</b> Topic 1: 2D and 3D	
Prime Resources	<b>Posters:</b> Place Value, Rounding		<b>Posters:</b> Addition Square <b>Useful Resources:</b> Addition Table			<b>Posters:</b> Regular and Irregular Shapes, Triangles, Quadrilateral Family Tree, 3D Objects	



## Term 2



Topic	Fractions		Multiplication			2D Space
Content	Understand mixed numerals and how to place fractions on a number line. Compare fractions using pictures and diagrams.		Learn the times tables and understand factors and multiples. Find equivalent multiplication facts and multiply by multiples of 10, 100, 1000. Use mental calculation strategies to solve multiplication problems.			Investigate rotation, symmetry and tessellation with 2D shapes.
Curriculum	<b>AC9M4N04</b> count by fractions including mixed numerals; represent fractions on number lines		<b>AC9M4A02</b> recall and demonstrate proficiency with multiplication facts up to $10 \times 10$ ; extend and apply facts to develop efficient mental strategies for computation with larger numbers without a calculator <b>AC9M4N05</b> solve problems involving multiplying numbers by multiples of 10 without a calculator, using the multiplicative relationship between the place value of digits			<b>AC9M4SP03</b> recognise line symmetry and create symmetrical patterns
Prime Units	<b>Fractions Unit 2:</b> Counting Fractions		<b>Operations Unit 9:</b> Multiplication Thinking <b>Operations Unit 10:</b> Multiplication Strategies			<b>Geometry Unit 6:</b> Shape Movements
Weeks	1	2	3	4	5	6
Online Learning Program	<b>Lesson:</b> FRA.2.1 Mixed Numerals	<b>Lesson:</b> FRA.2.3 Compare Fractions: Draw a picture	<b>Lesson:</b> OPS.9.1 The Times Tables	<b>Lesson:</b> OPS.9.4 Equivalent Multiplication Facts	<b>Lesson:</b> OPS.10.2 Mental Maths: Multiplication 1	<b>Lesson:</b> GEO.6.1 Rotation
	<b>Lesson:</b> FRA.2.2 Fraction Number Lines	<b>Lesson:</b> FRA.2.4 Compare Fractions: Diagrams	<b>Lesson:</b> OPS.9.2 Factors	<b>Problem Solving:</b> How many Cookies?	<b>Assessment:</b> Check Up Quiz	<b>Lesson:</b> GEO.6.2 Symmetrical Designs
	<b>Assessment:</b> Check Up Quiz	<b>Problem Solving:</b> Woolly Thinking	<b>Assessment:</b> Check Up Quiz	<b>Assessment:</b> End of Unit Quiz	<b>Lesson:</b> OPS.10.3 Mental Maths: Multiplication 2	<b>Assessment:</b> Check Up Quiz <b>Fantastic Fact:</b> Bilateral Symmetry
	<b>Fantastic Fact:</b> Tie Dye T-shirts	<b>Assessment:</b> End of Unit Quiz	<b>Lesson:</b> OPS.9.3 Multiples within 100	<b>Lesson:</b> OPS.10.1 Multiplication by 10, 100, 1000	<b>Problem Solving:</b> Bug Racing	<b>Lesson:</b> GEO.6.3 Tessellation
			<b>Fantastic Fact:</b> Threes and Nines	<b>Fantastic Fact:</b> Super Swimmers	<b>Assessment:</b> End of Unit Quiz	<b>Problem Solving:</b> Symmetrical Designs <b>Assessment:</b> End of Unit Quiz
Games	Guess My Number, Sudoku		On Target, Tikku Tikku, Matchstick Puzzles – Numbers			Matchstick Puzzles – Shapes
Printables Library	<b>Year 4 Numbers, Fractions &amp; Decimals book</b> Topic 2: Fractions		<b>Year 4 Operations and Algebra book</b> Topic 2: Multiplication			<b>Year 4 Geometry book</b> Topic 2: Shape Movements
Prime Resources	<b>Posters:</b> Fraction Number Lines		<b>Posters:</b> Times tables $2\times$ to $12\times$ , Multiplication Table, Properties of Multiplication <b>Useful Resources:</b> Multiplication Resources			<b>Posters:</b> Symmetry, Rotation, 2D Shape Movements



# Term 3

Topic	Equivalent Fractions	Mixed Operations				Angles
Content	Make equivalent fractions and recognise fraction families.	Learn the division facts. Use mental calculation strategies to solve division problems. Explore patterns to find rules for operations with odd and even numbers. Learn halving and doubling strategies for mental calculations. Explore patterns in multiplication.				Classify angles. Compare angles relative to right angles.
Curriculum	<b>AC9M4N03</b> find equivalent representations of fractions using related denominators	<b>AC9M4A02</b> recall and demonstrate proficiency with multiplication facts up to $10 \times 10$ and related division facts; extend and apply facts to develop efficient mental strategies for computation with larger numbers <b>AC9M4N02</b> explain and use the properties of odd and even numbers <b>AC9M4N06</b> develop strategies for solving problems involving multiplication & division with no remainder <b>AC9M4N09</b> follow and create algorithms to generate sets of numbers; identify and describe any patterns				<b>AC9M4M04</b> estimate and compare angles using angle names
Prime Units	<b>Fractions Unit 3:</b> Equivalent Fractions	<b>Operations Unit 11:</b> Division Strategies <b>Operations Unit 12:</b> Operations with Odd & Even Numbers <b>Operations Unit 13:</b> Multiplication Patterns				<b>Geometry Unit 7:</b> Angles
Week	1	2	3	4	5	6
Online Learning Program	<b>Lesson:</b> FRA.3.1 Equivalent Fractions: Diagrams	<b>Lesson:</b> OPS.11.1 Division Facts	<b>Problem Solving:</b> Okapi Operations	<b>Lesson:</b> OPS.12.3 Doubling	<b>Lesson:</b> OPS.13.1 Multiplication Number Sequences	<b>Lesson:</b> GEO.7.1 Types of angles 1
	<b>Lesson:</b> FRA.3.2 Fraction Families	<b>Lesson:</b> OPS.11.2 Mental Maths: Division Strategies 1	<b>Assessment:</b> End of Unit Quiz	<b>Lesson:</b> OPS.12.4 Halving	<b>Lesson:</b> OPS.13.2 Multiplication Patterns in 100 Square	<b>Lesson:</b> GEO.7.2 Types of angles 2
	<b>Assessment:</b> Check Up Quiz <b>Fantastic Fact:</b> The Largest Slice	<b>Assessment:</b> Check Up Quiz	<b>Lesson:</b> OPS.12.1 Odds & Evens in Addition & Subtraction	<b>Problem Solving:</b> An Age Old Problem	<b>Assessment:</b> Check Up Quiz <b>Fantastic Fact:</b> The Multiplication Symbol	<b>Assessment:</b> Check Up Quiz <b>Fantastic Fact:</b> The Pointy End
	<b>Lesson:</b> FRA.3.3 Convert Fractions: Count the Parts	<b>Lesson:</b> OPS.11.3 Mental Maths: Division Strategies 2	<b>Lesson:</b> OPS.12.2 Odds and Evens in Multiplication	<b>Assessment:</b> End of Unit Quiz	<b>Lesson:</b> OPS.13.3 The Multiplication Chart	<b>Lesson:</b> GEO.7.3 Classifying Angles
	<b>Problem Solving:</b> Reward Cards <b>Assessment:</b> End of Unit Quiz	<b>Fantastic Fact:</b> Fuel for Flight	<b>Assessment:</b> Check Up Quiz	<b>Fantastic Fact:</b> Ones and Zeros	<b>Problem Solving:</b> Timing is Everything <b>Assessment:</b> End of Unit Quiz	<b>Problem Solving:</b> Equation Angles <b>Assessment:</b> End of Unit Quiz
Games	Guess My Number	Sudoku, On Target, Tikku Tikku, Matchstick Puzzles – Numbers				Matchstick Puzzles – Shapes
Printables Library	<b>Year 4 Numbers, Fractions &amp; Decimals book</b> Topic 3: Equivalent Fractions	<b>Year 4 Operations and Algebra book</b> Topic 3: Division    Topic 4: Patterns and Algebra				<b>Year 4 Geometry book</b> Topic 3: Angles
Prime Resources	<b>Posters:</b> Fraction Number Lines, Fraction Wall	<b>Posters:</b> Multiplication Table, Division Strategies, Adding Even and Odd Numbers, Multiplying Even and Odd Numbers, Doubling and Halving, Multiplication Square				<b>Posters:</b> Angles
	<b>Useful Resources:</b> Fractions	<b>Useful Resources:</b> Hundred Chart				



# Term 4

Topic	Decimals			Word Problems		Maps
Content	Convert between decimals and fractions. Place decimals on number lines.		Explore decimals as place values. Compare decimals and use decimal notation in currency problems.	Interpret and calculate the answers to word problems. Solve word problems.		Learn about the compass, and map scales and legends. Interpret maps.
Curriculum	AC9M4N03 make connections between fractions and decimal notation		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	AC9M4N07 choose and use estimation and rounding to check and explain the reasonableness of calculations AC9M4N08 use mathematical modelling to solve practical problems including financial contexts		AC9M4SP02 create and interpret grid reference systems and directions to locate and describe positions and pathways
Prime Units	Fractions Unit 4: Decimal Fractions		Number Unit 5: Numbers & Decimals	Operations Unit 14: Word Problems		Geometry Unit 8: Maps
Week	1	2	3	4	5	6
Online Learning Program	Lesson: FRA.4.1 Tenths and Hundredths	Problem Solving: Fraction Robot	Lesson: NUM.5.3 Compare Decimals	Lesson: OPS.14.1 Word Problems: Multiplication	Problem Solving: Wolf vs Rabbit	Assessment: Check Up Quiz Fantastic Fact: The Compass
	Lesson: FRA.4.2 Converting Fractions and Decimals	Assessment: End of Unit Quiz	Lesson: NUM.5.4 Money in Decimals	Lesson: OPS.14.2 Word Problems: Division	Assessment: End of Unit Quiz	Lesson: GEO.8.3 Using a Map
	Assessment: Check Up Quiz Fantastic Fact: Humpback Whales	Fractions End of Grade Quizzes Part 1: Knowledge and Skills Part 2: Application	Problem Solving: First and Last	Assessment: Check Up Quiz	Operations End of Grade Quizzes Part 1: Knowledge and Skills Part 2: Application	Problem Solving: Delivery Route
	Lesson: FRA.4.3 Decimal Number Lines	Lesson: NUM.5.2 Decimal Places	Assessment: End of Unit Quiz	Lesson: OPS.14.3 Word Problems: Money	Lesson: GEO.8.1 Compass Directions	Assessment: End of Unit Quiz
	Lesson: FRA.4.4 Equivalent Fractions and Decimals	Assessment: Check Up Quiz Fantastic Fact: The Golden Ratio	Number End of Grade Quizzes Part 1: Knowledge and Skills Part 2: Application	Fantastic Fact: The Division Symbol	Lesson: GEO.8.2 Map Legends and Scales	Geometry End of Grade Quizzes Part 1: Knowledge and Skills Part 2: Application
Games	Guess My Number, Sudoku			On Target, Tikku Tikku		Matchstick Puzzles – Numbers and Shapes
Printables Library	Year 4 Numbers, Fractions & Decimals book Topic 4: Decimal Fractions                      Topic 5 Decimal Place Value					Year 4 Geometry book Topic 4: Maps
Prime Resources	Posters: Decimal Place Value					Posters: Compass, Grid Coordinates Useful Resources: 10 × 10 Coordinate Grids