

# Year 5 Program Content First Half

Unit	Unit Title and Lesson Titles
1	<b>Working with Numbers to One Million</b> <ul style="list-style-type: none"> <li>• Reading and Writing Six-Digit Numbers</li> <li>• Working with Relative Position</li> <li>• Comparing and Ordering Numbers</li> <li>• Sequencing Six-Digit Numbers</li> <li>• Working with Place Value</li> </ul>
2	<b>Extending Mental Computation Strategies for Addition</b> <ul style="list-style-type: none"> <li>• Exploring Whole Number Patterns</li> <li>• Using the Jump Strategy to Add Whole Numbers</li> <li>• Using the Split Strategy to Add Dollars and Cents</li> <li>• Compensating to Add Ones and Tenths</li> <li>• Using Compatible Pairs to Add Tenths</li> </ul>
3	<b>Relating Units of Measurement</b> <ul style="list-style-type: none"> <li>• Measuring in Millimetres</li> <li>• Relating Metres to Millimetres</li> <li>• Relating Kilometres to Metres</li> <li>• Relating Units of Measure</li> <li>• Choosing Appropriate Units of Measure</li> </ul>
4	<b>Working with Decimal Fractions</b> <ul style="list-style-type: none"> <li>• Reading and Writing Hundredths</li> <li>• Relating Hundredths to Fractions of a Metre</li> <li>• Working with Relative Position</li> <li>• Comparing and Ordering Hundredths</li> <li>• Relating Common and Decimal Fractions</li> </ul>
5	<b>Extending Mental and Written Multiplication Strategies</b> <ul style="list-style-type: none"> <li>• Investigating Multiplication Patterns</li> <li>• Using Place Value to Multiply</li> <li>• Recording Steps to Multiply</li> <li>• Investigating Patterns and Recording Steps to Multiply</li> <li>• Using Place Value to Multiply Tenths</li> </ul>
6	<b>Working with Multiples and Factors</b> <ul style="list-style-type: none"> <li>• Investigating Patterns Made by Multiples</li> <li>• Extending Patterns Made by Multiples</li> <li>• Working with Factors</li> <li>• Solving Number Puzzles</li> <li>• Constructing Factor Trees</li> </ul>
7	<b>Exploring 2D Shapes and 3D Objects</b> <ul style="list-style-type: none"> <li>• Drawing Top Views of 3D Objects</li> <li>• Working with Different Viewpoints</li> <li>• Identifying Parallelism</li> <li>• Analysing Prisms and Pyramids</li> <li>• Investigating 3D Objects</li> </ul>
8	<b>Exploring Mental Strategies to Multiply Large Numbers</b> <ul style="list-style-type: none"> <li>• Using Compatible Pairs to Multiply</li> <li>• Factoring Two-Digit Numbers</li> <li>• Using Factoring to Multiply</li> <li>• Using the Doubling-and-Halving Strategy</li> <li>• Using Place Value to Multiply</li> </ul>

Unit	Unit Title and Lesson Titles
9	<b>Extending Decimals to Thousandths</b> <ul style="list-style-type: none"> <li>• Reading and Writing Hundredths</li> <li>• Locating Tenths and Hundredths on a Number Line</li> <li>• Introducing Thousandths</li> <li>• Relating Tenths, Hundredths and Thousandths</li> <li>• Locating Thousandths on a Number Line</li> </ul>
10	<b>Solving Division Problems With and Without Remainders</b> <ul style="list-style-type: none"> <li>• Dividing Two-Digit Whole Numbers – No Remainders</li> <li>• Dividing Three-Digit Whole Numbers – No Remainders</li> <li>• Interpreting Remainders in Context – Money</li> <li>• Identifying Sensible Solutions for Amounts Left Over</li> <li>• Using Division in Everyday Situations</li> </ul>
11	<b>Calculating Perimeter and Area</b> <ul style="list-style-type: none"> <li>• Calculating the Perimeter of Quadrilaterals</li> <li>• Developing Rules to Find the Perimeter of Rectangles</li> <li>• Calculating the Area of Polygons</li> <li>• Investigating the Area of Rectangles</li> <li>• Connecting Perimeter and Area</li> </ul>
12	<b>Extending Mental Computation Strategies for Subtraction</b> <ul style="list-style-type: none"> <li>• Subtracting Multiples of 100</li> <li>• Using the Count-Back Strategy</li> <li>• Using the Compensation Strategy</li> <li>• Splitting a Number into Parts to Subtract Tenths</li> <li>• Compensating to Calculate Change</li> </ul>
13	<b>Working with Angles</b> <ul style="list-style-type: none"> <li>• Measuring Angles with Informal Units</li> <li>• Measuring Angles with a Protractor</li> <li>• Drawing with a Protractor</li> <li>• Describing Angles</li> <li>• Identifying Angle Arms</li> </ul>
14	<b>Collecting, Representing and Interpreting Data</b> <ul style="list-style-type: none"> <li>• Interpreting a Bar Graph</li> <li>• Constructing a Bar Graph</li> <li>• Interpreting Data to Make Financial Decisions</li> <li>• Working with Dot Plots</li> <li>• Exploring Pie Charts</li> </ul>
15	<b>Quantifying Chance</b> <ul style="list-style-type: none"> <li>• Quantifying the Language of Chance</li> <li>• Quantifying the Likelihood of Chance Events</li> <li>• Using Frequencies to Make Predictions</li> <li>• Using Experimental Data to Assign Probability Values</li> <li>• Listing and Analysing Outcomes</li> </ul>

# Year 5 Program Content Second Half

Unit	Unit Title and Lesson Titles
16	<b>Consolidating Work with Decimal Fractions</b> <ul style="list-style-type: none"> <li>Working with Place Value</li> <li>Comparing Decimal Fractions</li> <li>Rounding Decimal Fractions</li> <li>Ordering Decimal Fractions</li> <li>Exploring Decimal Patterns</li> </ul>
17	<b>Investigating Mental Computation Strategies for Division</b> <ul style="list-style-type: none"> <li>Interpreting Amounts Left Over</li> <li>Making Estimates</li> <li>Dividing Three- and Four-Digit Whole Numbers</li> <li>Dividing the Parts – Dollars and Cents</li> <li>Splitting Three- and Four-Digit Dividends</li> </ul>
18	<b>Working with 12- and 24-Hour Time Systems</b> <ul style="list-style-type: none"> <li>Reading and Writing Times</li> <li>Relating Units of Time</li> <li>Reading Digital and Analogue Times</li> <li>Exploring 24-Hour Time</li> <li>Working with 24-Hour Time</li> </ul>
19	<b>Using Written Computation Methods for Addition</b> <ul style="list-style-type: none"> <li>Adding Two- and Three-Digit Numbers</li> <li>Adding Four-Digit Numbers</li> <li>Adding Dollars and Cents</li> <li>Adding Two Decimal Fractions</li> <li>Adding Three or More Decimal Fractions</li> </ul>
20	<b>Exploring Strategies to Multiply Decimals</b> <ul style="list-style-type: none"> <li>Using Place Value to Multiply Whole Numbers</li> <li>Using Place Value to Multiply Tenths</li> <li>Doubling to Multiply Dollars and Cents</li> <li>Compensating to Multiply Dollars and Cents</li> <li>Choosing a Strategy to Make Estimates</li> </ul>
21	<b>Investigating Mass and Capacity</b> <ul style="list-style-type: none"> <li>Relating Grams and Kilograms</li> <li>Expressing Grams as Thousandths of a Kilogram</li> <li>Relating Millilitres and Litres</li> <li>Expressing Millilitres as Thousandths of a Litre</li> <li>Relating Mass and Capacity</li> </ul>
22	<b>Connecting Percentage to Common and Decimal Fractions</b> <ul style="list-style-type: none"> <li>Relating Common and Decimal Fractions</li> <li>Working with Relative Position</li> <li>Introducing Percentage</li> <li>Relating Percentage to Fractions</li> <li>Working with Fractions and Percentage</li> </ul>
23	<b>Representing Location, Direction and Movement</b> <ul style="list-style-type: none"> <li>Using Compass Points</li> <li>Describing Routes</li> <li>Using Grid References</li> <li>Using Map Conventions</li> <li>Exploring Scale</li> </ul>

Unit	Unit Title and Lesson Titles
24	<b>Using Written Computation Methods for Subtraction</b> <ul style="list-style-type: none"> <li>Subtracting Three-Digit Numbers</li> <li>Subtracting Four- and Five-Digit Numbers</li> <li>Subtracting Dollars and Cents</li> <li>Subtracting Decimal Fractions</li> <li>Subtracting Decimal Fractions</li> </ul>
25	<b>Working with Fractions</b> <ul style="list-style-type: none"> <li>Representing Fractions – Area Model</li> <li>Representing Fractions – Number Line Model</li> <li>Relating Improper Fractions and Mixed Numerals</li> <li>Working with Equivalence</li> <li>Relating Fractions to Tenths and Hundredths</li> </ul>
26	<b>Investigating Written Methods For Multiplication</b> <ul style="list-style-type: none"> <li>Multiplying Three-Digit Numbers</li> <li>Multiplying Dollars and Cents</li> <li>Exploring Multiplication Patterns</li> <li>Multiplying by Tens</li> <li>Recording Steps to Multiply</li> </ul>
27	<b>Using Length, Mass, Volume and Capacity</b> <ul style="list-style-type: none"> <li>Solving Problems Involving Length</li> <li>Solving Problems Involving Capacity</li> <li>Solving Problems Involving Mass</li> <li>Introducing the Tonne</li> <li>Working with Mass over One Tonne</li> </ul>
28	<b>Solving Problems Involving the Four Operations</b> <ul style="list-style-type: none"> <li>Exploring Equivalent Number Sentences</li> <li>Completing Equivalent Number Sentences</li> <li>Investigating Order with One Operation</li> <li>Investigating Order with Multiple Operations</li> <li>Writing Number Sentences to Match Problems</li> </ul>
29	<b>Exploring Transformations</b> <ul style="list-style-type: none"> <li>Exploring Reflective Symmetry</li> <li>Exploring Rotational Symmetry</li> <li>Examining Patterns</li> <li>Enlarging and Reducing Shapes – Different Grids</li> <li>Enlarging and Reducing Shapes – Same Grids</li> </ul>
30	<b>Adding and Subtracting Fractions – Same Denominators</b> <ul style="list-style-type: none"> <li>Adding and Subtracting Common Fractions</li> <li>Adding Mixed Numerals</li> <li>Subtracting Mixed Numerals</li> <li>Adding and Subtracting Mixed Numerals</li> <li>Adding and Subtracting Fractions in Context</li> </ul>