

# Year 6 Program Content First Half

Unit	Unit Title and Lesson Titles
1	<b>Working with Numbers Beyond One Million</b> <ul style="list-style-type: none"> <li>Working with Large Numbers in Context</li> <li>Building a Picture of One Million</li> <li>Reading Numerals with Millions</li> <li>Writing Numerals with Millions</li> <li>Exploring Relative Position on a Number Line</li> </ul>
2	<b>Using Mental Strategies for Addition and Subtraction</b> <ul style="list-style-type: none"> <li>Consolidating Mental Addition Strategies</li> <li>Relating Addition and Subtraction</li> <li>Choosing an Addition or Subtraction Strategy</li> <li>Compensating to Add Dollars and Cents</li> <li>Calculating Change</li> </ul>
3	<b>Relating Length to Volume, Mass and Capacity</b> <ul style="list-style-type: none"> <li>Working with Millimetres</li> <li>Expressing Millimetres as Thousandths of a Metre</li> <li>Converting Between Units of Length</li> <li>Analysing One Litre of Water</li> <li>Working with Cubic Centimetres</li> </ul>
4	<b>Working with Tenths, Hundredths and Thousandths</b> <ul style="list-style-type: none"> <li>Regrouping Tenths, Hundredths and Thousandths</li> <li>Reading and Writing Thousandths</li> <li>Comparing and Ordering Tenths and Hundredths</li> <li>Sequencing Tenths and Hundredths</li> <li>Working with Relative Position</li> </ul>
5	<b>Relating Percentage to Common and Decimal Fractions</b> <ul style="list-style-type: none"> <li>Relating Percentages to Fractions</li> <li>Comparing Percentages and Fractions</li> <li>Working with Percentage of Collections</li> <li>Working with Percentage of Money</li> <li>Solving Problems Involving Percentage</li> </ul>
6	<b>Describing Number Patterns and Properties</b> <ul style="list-style-type: none"> <li>Exploring Properties of Prime and Composite Numbers</li> <li>Investigating Properties of Square Numbers</li> <li>Investigating Properties of Triangular Numbers</li> <li>Investigating Fibonacci Numbers</li> <li>Investigating Pascal's Triangle</li> </ul>
7	<b>Exploring 2D Shapes and 3D Objects</b> <ul style="list-style-type: none"> <li>Analysing Triangles</li> <li>Drawing Polygons</li> <li>Representing Prisms and Pyramids</li> <li>Analysing Nets</li> <li>Making Nets</li> </ul>
8	<b>Using Mental Computation Strategies for Division</b> <ul style="list-style-type: none"> <li>Using Multiple Strategies for Multiplication</li> <li>Comparing Multiplication Strategies</li> <li>Doubling and Halving to Multiply Dollars and Cents</li> <li>Multiplying Decimals by Whole Numbers</li> <li>Compensating to Multiply Dollars and Cents</li> </ul>

Unit	Unit Title and Lesson Titles
9	<b>Working with Large Numbers</b> <ul style="list-style-type: none"> <li>Identifying Sensible Numbers</li> <li>Locating Large Numbers on a Number Line</li> <li>Comparing and Ordering Large Numbers</li> <li>Solving Problems Involving Place Value</li> <li>Exploring the Mayan Number System</li> </ul>
10	<b>Using Mental Computation Strategies for Multiplication</b> <ul style="list-style-type: none"> <li>Splitting the Dividend to Divide Dollars and Cents</li> <li>Using Factors to Divide by Two-Digit Numbers</li> <li>Using Factors to Divide by Multiples of 10</li> <li>Using Equivalent Expressions to Divide</li> <li>Investigating Remainders</li> </ul>
11	<b>Working with Units of Length</b> <ul style="list-style-type: none"> <li>Choosing Sensible Answers Involving Length</li> <li>Relating Units of Length</li> <li>Solving Problems Involving Length</li> <li>Working with Units of Length</li> <li>Converting Units of Length</li> </ul>
12	<b>Adding Fractions with Same or Related Denominators</b> <ul style="list-style-type: none"> <li>Finding Fractions of a Quantity</li> <li>Adding Fractions – Same Denominator</li> <li>Reviewing Equivalency</li> <li>Adding Fractions – Related Denominators</li> <li>Adding Mixed Numerals – Related Denominators</li> </ul>
13	<b>Working with Angles</b> <ul style="list-style-type: none"> <li>Estimating and Measuring Angles</li> <li>Examining Angles at a Point</li> <li>Exploring Angles at a Point and on a Straight Line</li> <li>Investigating Vertically Opposite Angles</li> <li>Exploring Diagonals of Quadrilaterals</li> </ul>
14	<b>Collecting, Representing and Interpreting Data</b> <ul style="list-style-type: none"> <li>Interpreting Pie Graphs</li> <li>Working with Divided Bar Graphs</li> <li>Interpreting a Bar Graph</li> <li>Interpreting Combined Data in a Bar Graph</li> <li>Investigating Secondary Data</li> </ul>
15	<b>Quantifying the Likelihood of Chance Events</b> <ul style="list-style-type: none"> <li>Quantifying the Likelihood of Everyday Events</li> <li>Listing and Analysing Outcomes</li> <li>Using Experimental Data to Assign Probability Values</li> <li>Comparing Observed and Expected Frequencies</li> <li>Conducting Chance Experiments</li> </ul>

# Year 6 Program Content Second Half

Unit	Unit Title and Lesson Titles
16	<b>Working with Decimals – Thousandths</b> <ul style="list-style-type: none"> <li>• Multiplying and Dividing Decimals by Powers of 10</li> <li>• Locating Thousandths on a Number Line</li> <li>• Rounding Decimal Fractions</li> <li>• Comparing and Ordering Hundredths and Thousandths</li> <li>• Solving Problems Involving Place Value</li> </ul>
17	<b>Solving Addition and Subtraction Problems</b> <ul style="list-style-type: none"> <li>• Using Multiple Addition and Subtraction Strategies</li> <li>• Solving Addition and Subtraction Problems</li> <li>• Making Estimates to Add Decimals</li> <li>• Counting On or Back to Subtract Tenths and Hundredths</li> <li>• Subtracting Tenths and Hundredths</li> </ul>
18	<b>Consolidating the Understanding of Time</b> <ul style="list-style-type: none"> <li>• Placing Events on a Timeline</li> <li>• Interpreting a Timetable</li> <li>• Solving Problems Involving 12- and 24-Hour Times</li> <li>• Working with Units of Time</li> <li>• Calculating Elapsed Time</li> </ul>
19	<b>Adding and Subtracting ‘Messy’ Numbers</b> <ul style="list-style-type: none"> <li>• Making Numbers Manageable to Estimate</li> <li>• Estimating with Whole Numbers</li> <li>• Adding Multiple Dollar-and-Cent Items</li> <li>• Solving Addition and Subtraction Problems</li> <li>• Adding and Subtracting Decimals – Unequal Places</li> </ul>
20	<b>Using Written Methods for Multiplication</b> <ul style="list-style-type: none"> <li>• Using Partial Products to Develop Written Methods</li> <li>• Analysing Written Methods</li> <li>• Exploring Written Methods to Multiply Decimals</li> <li>• Using Written Methods to Multiply Tenths</li> <li>• Estimating Areas Involving Tenths</li> </ul>
21	<b>Relating Mass to Volume, Length and Capacity</b> <ul style="list-style-type: none"> <li>• Choosing Appropriate Units to Measure Mass</li> <li>• Relating Grams and Kilograms</li> <li>• Reading Scales and Making Conversions</li> <li>• Connecting Units of Mass, Capacity and Volume</li> <li>• Converting Units of Measurement</li> </ul>
22	<b>Exploring Integers</b> <ul style="list-style-type: none"> <li>• Introducing Integers</li> <li>• Comparing Integers on a Number Line</li> <li>• Working with Integers</li> <li>• Solving Problems Involving Integers – Temperature</li> <li>• Solving Problems Involving Integers – Money</li> </ul>
23	<b>Representing Location, Direction and Movement</b> <ul style="list-style-type: none"> <li>• Using a Coordinate Grid – First Quadrant</li> <li>• Reviewing Map Conventions</li> <li>• Working with Maps</li> <li>• Using a Coordinate Grid – All Four Quadrants</li> <li>• Exploring Shapes on All Four Quadrants</li> </ul>

Unit	Unit Title and Lesson Titles
24	<b>Solving Division Problems</b> <ul style="list-style-type: none"> <li>• Solving Division Problems</li> <li>• Dealing with Amounts Left Over</li> <li>• Solving Division Problems Involving Money</li> <li>• Calculating Best Buys</li> <li>• Solving Division Problems Involving Decimals</li> </ul>
25	<b>Subtracting Fractions with Same or Related Denominators</b> <ul style="list-style-type: none"> <li>• Subtracting Fractions – Same Denominator</li> <li>• Subtracting Mixed Numerals – Same Denominator</li> <li>• Finding Equivalent Fractions</li> <li>• Subtracting Proper Fractions – Related Denominators</li> <li>• Subtracting Mixed Numerals – Related Denominators</li> </ul>
26	<b>Working with Percentages</b> <ul style="list-style-type: none"> <li>• Finding a Percentage of a Whole Number</li> <li>• Introducing Percentage Discounts</li> <li>• Calculating Percentage Discounts</li> <li>• Applying Discounts to Calculate a Selling Price</li> <li>• Exploring the Concept of Interest</li> </ul>
27	<b>Relating Capacity to Volume, Length and Mass</b> <ul style="list-style-type: none"> <li>• Working with Units of Capacity</li> <li>• Adding Mixed Units of Capacity</li> <li>• Connecting Units of Measurement</li> <li>• Using the <math>\text{cm}^3</math> Notation</li> <li>• Working with Volume</li> </ul>
28	<b>Solving Problems Involving the Four Operations</b> <ul style="list-style-type: none"> <li>• Writing and Using Equations</li> <li>• Creating Equivalent Number Sentences</li> <li>• Completing Equivalent Number Sentences</li> <li>• Writing Number Sentences to Match Problems</li> <li>• Exploring the Order of Operations</li> </ul>
29	<b>Exploring Transformations</b> <ul style="list-style-type: none"> <li>• Working with Reflections</li> <li>• Working with Rotations</li> <li>• Combining Transformations</li> <li>• Examining Patterns</li> <li>• Exploring Enlargements</li> </ul>
30	<b>Investigating the Perimeter and Area of 2D Shapes</b> <ul style="list-style-type: none"> <li>• Calculating the Perimeter of Rectangles</li> <li>• Calculating the Area of Rectangles</li> <li>• Working with the Area of Rectangles</li> <li>• Relating Perimeter and Area</li> <li>• Exploring the Area of Parallelograms</li> </ul>