



# LEIGH ST PETER'S CE PRIMARY SCHOOL

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## Leigh St Peter's CE Primary School Mathematics Long Term Plan

### Year 4 Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value		Number: Addition and Subtraction		Number: Multiplication and Division		Measure: Area		Geometry: Position and Direction		Statistics	
Spring	Number: Addition and Subtraction		Fractions		Decimals		Measure: Converting Units, including Money		Measure: Volume	Geometry: Angles	Number: multiplication and division	
Summer	Fractions / Decimals		Geometry: Perimeter		Geometry: Shape		Number: Addition, subtraction,		Number: Multiplication and Division		MOVE TO NEXT CLASS	



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## Medium Term Plan – Unit Overview – Year 4

Term	Autumn
Unit	Place Value
NC Objectives	<ul style="list-style-type: none"><li>• count in multiples of 6, 7, 9, 25 and 1000</li><li>• find 1000 more or less than a given number</li><li>• count backwards through zero to include negative numbers</li><li>• recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li><li>• order and compare numbers beyond 1000</li><li>• identify, represent and estimate numbers using different representations</li><li>• round any number to the nearest 10, 100 or 1000</li><li>• solve number and practical problems that involve all of the above and with increasingly large positive numbers</li><li>• read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Representing numbers to 1,000</li><li>• 100s, 10s and 1s</li><li>• Number lines to 1,000</li><li>• Round to the nearest 100.</li><li>• Count in 1,00's</li><li>• 1,000s, 100s, 10s and 1s</li><li>• Partitioning</li><li>• Number line to 10,000</li><li>• Find 1, 10, 100 more or less</li><li>• 1,000 more or less.</li><li>• Compare numbers</li></ul>
Key Vocabulary- Introduced at Year 4	<p><b>Number:</b> ten thousand, hundred thousand, million, sixes, sevens, nines, twenty-fives, next, consecutive , integer, positive, negative</p> <p>above/below zero, minus, negative numbers</p> <p><b>Place Value:</b> One thousand more, one thousand less</p> <p><b>Estimating:</b> thousand</p>
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Autumn
Unit	Addition and Subtraction
NC Objectives	<ul style="list-style-type: none"><li>• add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li><li>• estimate and use inverse operations to check answers to a calculation</li><li>• solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Add two 4 digit numbers – one exchange.</li><li>• Add two 4 digit numbers – more than one exchange.</li><li>• Add whole numbers with more than 4 digits</li><li>• Subtract two 4 digit numbers – one exchange</li><li>• Subtract two 4 digit numbers – more than one exchange.</li><li>• Subtract whole numbers with more than 4 digits</li><li>• Round to estimate and approximate</li><li>• Inverse operations</li><li>• Multi step addition and subtraction problems.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Addition and Subtraction:</b> Inverse
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Autumn
Unit	Multiplication and Division
NC Objectives	<ul style="list-style-type: none"><li>• recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li><li>• use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li><li>• recognise and use factor pairs and commutativity in mental calculations</li><li>• multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li><li>• solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Multiples</li><li>• Factors</li><li>• Common factors</li><li>• Prime Numbers</li><li>• Square numbers</li><li>• Cube numbers</li><li>• Multiply by 10.</li><li>• Multiply by 100.</li><li>• Multiply by 10, 100 and 1,000.</li><li>• Divide by 10.</li><li>• Divide by 100.</li><li>• Divide by 10, 100 and 1,000.</li><li>• Multiples of 10, 100 and 1,000.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Multiplication and Division:</b> Inverse, square, squared, cube, cubed
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Autumn
Unit	Measurement: Area and Perimeter
NC Objectives	<ul style="list-style-type: none"><li>• Convert between different units of measure [for example, kilometre to metre; hour to minute]</li><li>• measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li><li>• find the area of rectilinear shapes by counting squares</li><li>• estimate, compare and calculate different measures, including money in pounds and pence Mathematics – key stages 1 and 2 28 Statutory requirements</li><li>• read, write and convert time between analogue and digital 12- and 24-hour clocks</li><li>• solve problems involving converting</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Measure perimeter</li><li>• Perimeter on a grid</li><li>• Perimeter of rectangles</li><li>• Perimeter of rectilinear shapes.</li><li>• Calculate perimeter</li><li>• Area of a rectangle</li><li>• Area of a compound shapes</li><li>• Area of irregular shapes.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Measurement:</b> unit, standard unit, metric unit, breadth, edge, area, covers, squared centimetre cm <sup>2</sup> ,
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Autumn
Unit	Geometry: Position and Direction
NC Objectives	<ul style="list-style-type: none"><li>• describe positions on a 2-D grid as coordinates in the first quadrant</li><li>• describe movements between positions as translations of a given unit to the left/right and up/down</li><li>• Plot specified points and draw sides to complete a given polygon.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Position in the first quadrant</li><li>• Reflection</li><li>• Reflection with coordinates</li><li>• Translation</li><li>• Translation with coordinates</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Position and Direction:</b> north-east, north-west, south-east, south-west, NE, NW, SE, SW translate, translation
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Autumn
Unit	Statistics
NC Objectives	<ul style="list-style-type: none"><li>• interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li><li>• solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Interpret charts.</li><li>• Comparison, sum and difference.</li><li>• Introduce line graphs.</li><li>• Read and interpret line graphs.</li><li>• Draw line graphs.</li><li>• Use line graphs to solve problems.</li><li>• Read and interpret tables.</li><li>• Two-way tables.</li><li>• Timetables.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Statistics:</b> survey, questionnaire, data
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Spring
Unit	Addition and Subtraction
NC Objectives	<ul style="list-style-type: none"><li>• add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li><li>• estimate and use inverse operations to check answers to a calculation</li><li>• solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Add two 4 digit numbers – one exchange.</li><li>• Add two 4 digit numbers – more than one exchange.</li><li>• Add whole numbers with more than 4 digits</li><li>• Subtract two 4 digit numbers – one exchange</li><li>• Subtract two 4 digit numbers – more than one exchange.</li><li>• Subtract whole numbers with more than 4 digits</li><li>• Round to estimate and approximate</li><li>• Inverse operations</li><li>• Multi step addition and subtraction problems.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Addition and Subtraction:</b> Inverse
Reasoning and Problem Solving Vocabulary	Justify, make a statement





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## Medium Term Plan – Unit Overview – Year 4

Term	Spring
Unit	Fractions
NC Objectives	<ul style="list-style-type: none"><li>• recognise and show, using diagrams, families of common equivalent fractions</li><li>• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li><li>• solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</li><li>• add and subtract fractions with the same denominator</li><li>• recognise and write decimal equivalents of any number of tenths or hundredths</li><li>• recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li><li>• find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li><li>• round decimals with one decimal place to the nearest whole number</li><li>• compare numbers with the same number of decimal places up to two decimal places</li><li>• solve simple measure and money problems involving fractions and decimals to two decimal places.</li><li>•</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Equivalent fractions</li><li>• Improper fractions to mixed numbers</li><li>• Mixed numbers to improper fractions</li><li>• Number sequences</li><li>• Compare and order fractions less than one</li><li>• Compare and order fractions greater than 1</li><li>• Add and subtract fractions</li><li>• Add fractions within 1</li><li>• Add 3 or more fractions</li><li>• Add fractions</li><li>• Add mixed numbers</li><li>• Subtract fractions</li><li>• Subtract mixed numbers</li><li>• Subtract – breaking the whole</li><li>• Subtract 2 mixed numbers</li><li>• Multiply unit fractions by integers</li><li>• Multiply mixed numbers by integers</li><li>• Fraction of an amount</li><li>• Using fractions as operators</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Fractions:</b> hundredths, decimal, decimal fraction, decimal point, decimal place, decimal equivalent proportion
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Spring
Unit	Decimals
NC Objectives	<ul style="list-style-type: none"><li>• recognise and show, using diagrams, families of common equivalent fractions</li><li>• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li><li>• solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</li><li>• add and subtract fractions with the same denominator</li><li>• recognise and write decimal equivalents of any number of tenths or hundredths</li><li>• recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li><li>• find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li><li>• round decimals with one decimal place to the nearest whole number</li><li>• compare numbers with the same number of decimal places up to two decimal places</li><li>• solve simple measure and money problems involving fractions and decimals to two decimal places.</li><li>•</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Adding decimals within 1</li><li>• Subtracting decimals within 1</li><li>• Complements to 1</li><li>• Adding decimals – crossing the whole</li><li>• Adding decimals with the same number of decimal places</li><li>• Subtracting decimals with the same number of decimal places</li><li>• Adding decimals with a different number of decimal places</li><li>• Subtracting decimals with a different number of decimal places</li><li>• Adding and subtracting wholes and decimals</li><li>• Decimal sequences</li><li>• Multiplying decimals by 10, 100 and 1,000</li><li>• Dividing decimals by 10, 100 and 1,000</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Decimals:</b> hundredths, decimal, decimal fraction, decimal point, decimal place, decimal equivalent proportion
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Spring
Unit	Measurement: Converting Measure
NC Objectives	<ul style="list-style-type: none"><li>estimate, compare and calculate different measures, including money in pounds and pence Mathematics – key stages 1 and 2 28 Statutory requirements</li></ul>
Small Steps	<ul style="list-style-type: none"><li>Kilograms and kilometres</li><li>Milligrams and millilitres</li><li>Metric units Imperial units</li><li>Converting units of time</li><li>Timetables</li><li>Money</li></ul>
Key Vocabulary- Introduced at Year 4	<p><b>Time:</b> leap year, century, millennium, noon, midnight calendar, date, date of birth, timetable, arrive, depart</p> <p><b>Money:</b> No new vocabulary introduced</p>
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Spring
Unit	Measurement: Volume
NC Objectives	<ul style="list-style-type: none"><li>Estimate volume and capacity.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>What is volume?</li><li>Compare volume</li><li>Estimate volume</li><li>Estimate capacity</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Capacity: measuring cylinder</b>
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Spring
Unit	Geometry: Angles
NC Objectives	<ul style="list-style-type: none"><li>• identify acute and obtuse angles and compare and order angles up to two right angles by size</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Measuring angles in degrees Measuring with a protractor (1)</li><li>• Measuring with a protractor (2)</li><li>• Drawing lines and angles accurately Calculating angles on a straight line</li><li>• Calculating angles around a point</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Angles:</b> angle, right-angled
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Spring
Unit	Multiplication and Division
NC Objectives	<ul style="list-style-type: none"><li>• recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li><li>• use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li><li>• recognise and use factor pairs and commutativity in mental calculations</li><li>• multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li><li>• solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Multiples</li><li>• Factors</li><li>• Common factors</li><li>• Prime Numbers</li><li>• Square numbers</li><li>• Cube numbers</li><li>• Multiply by 10.</li><li>• Multiply by 100.</li><li>• Multiply by 10, 100 and 1,000.</li><li>• Divide by 10.</li><li>• Divide by 100.</li><li>• Divide by 10, 100 and 1,000.</li><li>• Multiples of 10, 100 and 1,000.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Multiplication and Division:</b> Inverse, square, squared, cube, cubed
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Summer
Unit	Fractions
NC Objectives	<ul style="list-style-type: none"><li>• recognise and show, using diagrams, families of common equivalent fractions</li><li>• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li><li>• solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</li><li>• add and subtract fractions with the same denominator</li><li>• recognise and write decimal equivalents of any number of tenths or hundredths</li><li>• recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li><li>• find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li><li>• round decimals with one decimal place to the nearest whole number</li><li>• compare numbers with the same number of decimal places up to two decimal places</li><li>• solve simple measure and money problems involving fractions and decimals to two decimal places.</li><li>•</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Equivalent fractions</li><li>• Improper fractions to mixed numbers</li><li>• Mixed numbers to improper fractions</li><li>• Number sequences</li><li>• Compare and order fractions less than one</li><li>• Compare and order fractions greater than 1</li><li>• Add and subtract fractions</li><li>• Add fractions within 1</li><li>• Add 3 or more fractions</li><li>• Add fractions</li><li>• Add mixed numbers</li><li>• Subtract fractions</li><li>• Subtract mixed numbers</li><li>• Subtract – breaking the whole</li><li>• Subtract 2 mixed numbers</li><li>• Multiply unit fractions by integers</li><li>• Multiply mixed numbers by integers</li><li>• Fraction of an amount</li><li>• Using fractions as operators</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Fractions:</b> hundredths, decimal, decimal fraction, decimal point, decimal place, decimal equivalent proportion
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Summer
Unit	Decimals
NC Objectives	<ul style="list-style-type: none"><li>• recognise and show, using diagrams, families of common equivalent fractions</li><li>• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</li><li>• solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</li><li>• add and subtract fractions with the same denominator</li><li>• recognise and write decimal equivalents of any number of tenths or hundredths</li><li>• recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li><li>• find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li><li>• round decimals with one decimal place to the nearest whole number</li><li>• compare numbers with the same number of decimal places up to two decimal places</li><li>• solve simple measure and money problems involving fractions and decimals to two decimal places.</li><li>•</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Adding decimals within 1</li><li>• Subtracting decimals within 1</li><li>• Complements to 1</li><li>• Adding decimals – crossing the whole</li><li>• Adding decimals with the same number of decimal places</li><li>• Subtracting decimals with the same number of decimal places</li><li>• Adding decimals with a different number of decimal places</li><li>• Subtracting decimals with a different number of decimal places</li><li>• Adding and subtracting wholes and decimals</li><li>• Decimal sequences</li><li>• Multiplying decimals by 10, 100 and 1,000</li><li>• Dividing decimals by 10, 100 and 1,000</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Decimals:</b> hundredths, decimal, decimal fraction, decimal point, decimal place, decimal equivalent proportion
Reasoning and Problem Solving Vocabulary	Justify, make a statement





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## Medium Term Plan – Unit Overview – Year 4

Term	Summer
Unit	Measurement: Area and Perimeter
NC Objectives	<ul style="list-style-type: none"><li>• Convert between different units of measure [for example, kilometre to metre; hour to minute]</li><li>• measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li><li>• find the area of rectilinear shapes by counting squares</li><li>• estimate, compare and calculate different measures, including money in pounds and pence Mathematics – key stages 1 and 2 28 Statutory requirements</li><li>• read, write and convert time between analogue and digital 12- and 24-hour clocks</li><li>• solve problems involving converting</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Measure perimeter</li><li>• Perimeter on a grid</li><li>• Perimeter of rectangles</li><li>• Perimeter of rectilinear shapes.</li><li>• Calculate perimeter</li><li>• Area of a rectangle</li><li>• Area of a compound shapes</li><li>• Area of irregular shapes.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Measurement:</b> unit, standard unit, metric unit, breadth, edge, area, covers, squared centimetre cm <sup>2</sup> ,
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Summer
Unit	Geometry: Shape
NC Objectives	<ul style="list-style-type: none"><li>• compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li><li>• identify lines of symmetry in 2-D shapes presented in different orientations</li><li>• complete a simple symmetric figure with respect to a specific line of symmetry.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Measuring angles in degrees Measuring with a protractor (1)</li><li>• Measuring with a protractor (2)</li><li>• Drawing lines and angles accurately Calculating angles on a straight line</li><li>• Calculating angles around a point</li><li>• Calculating lengths and angles in shapes Regular and irregular polygons</li><li>• Reasoning about 3-D shapes</li></ul>
Key Vocabulary- Introduced at Year 4	<p><b>Shape:</b> line, construct, sketch, centre, angle, right-angled, base, square-based, reflect, reflection, regular, irregular,</p> <p><b>2D Shapes:</b> 2-D, two-dimensional, oblong, rectilinear, equilateral triangle, isosceles triangle, scalene triangle, heptagon, parallelogram, rhombus, trapezium</p> <p>Polygon</p> <p><b>3D Shapes:</b> 3-D, three-dimensional, spherical, cylindrical, tetrahedron, polyhedron</p>
Reasoning and Problem Solving Vocabulary	Justify, make a statement



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## Medium Term Plan – Unit Overview – Year 4

Term	Summer
Unit	Addition and Subtraction
NC Objectives	<ul style="list-style-type: none"><li>• add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li><li>• estimate and use inverse operations to check answers to a calculation</li><li>• solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Add two 4 digit numbers – one exchange.</li><li>• Add two 4 digit numbers – more than one exchange.</li><li>• Add whole numbers with more than 4 digits</li><li>• Subtract two 4 digit numbers – one exchange</li><li>• Subtract two 4 digit numbers – more than one exchange.</li><li>• Subtract whole numbers with more than 4 digits</li><li>• Round to estimate and approximate</li><li>• Inverse operations</li><li>• Multi step addition and subtraction problems.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Addition and Subtraction:</b> Inverse
Reasoning and Problem Solving Vocabulary	Justify, make a statement



# LEIGH ST PETER'S CE PRIMARY SCHOOL

Together with God we challenge minds, recognise talents, and build dreams

LOVE

RESPECT

TRUST

FRIENDSHIP

RESPONSIBILITY

PERSEVERANCE

RESILIENCE

## Medium Term Plan – Unit Overview – Year 4

Term	Summer
Unit	Multiplication and Division
NC Objectives	<ul style="list-style-type: none"><li>• recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li><li>• use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li><li>• recognise and use factor pairs and commutativity in mental calculations</li><li>• multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li><li>• solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</li></ul>
Small Steps	<ul style="list-style-type: none"><li>• Multiples</li><li>• Factors</li><li>• Common factors</li><li>• Prime Numbers</li><li>• Square numbers</li><li>• Cube numbers</li><li>• Multiply by 10.</li><li>• Multiply by 100.</li><li>• Multiply by 10, 100 and 1,000.</li><li>• Divide by 10.</li><li>• Divide by 100.</li><li>• Divide by 10, 100 and 1,000.</li><li>• Multiples of 10, 100 and 1,000.</li></ul>
Key Vocabulary- Introduced at Year 4	<b>Multiplication and Division:</b> Inverse, square, squared, cube, cubed
Reasoning and Problem Solving Vocabulary	Justify, make a statement