



The Oaks Primary School
Bringing Learning to Life

Year 3 – Progression & Small Steps

	NC Objectives	Small steps	Fluency	Resources
Autumn 1 Place Value (within 1000) Addition & Subtraction (within 1000)	<ul style="list-style-type: none"> count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000 identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and in words solve number problems and practical problems involving these ideas. 	<ul style="list-style-type: none"> ➔ To understand hundreds, including multiples of 100 and understanding ten tens = 100 ➔ Represent numbers to 1,000 ➔ 100's, 10's and 1's ➔ Number line to 1,000 ➔ Find 1,10,100 more or less than a given number ➔ Compare objects to 1,000 ➔ Compare numbers to 1,000 ➔ Order numbers to 1,000 ➔ Count in 50's 	2D Shape Time Weight and Volume Fractions Money Position and direction Addition and subtraction Multiplication and division	Numicon Reknreks Tens frames Counters Multi-link Number lines Number lines 100 square Interactive resources WRM Stickers Part part whole -NCETM unit power points -White Rose Maths / premium -Third Space Learning place value games

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	<ul style="list-style-type: none"> • add and subtract numbers mentally, including: <ul style="list-style-type: none"> • a three-digit number and ones • a three-digit number and tens • a three-digit number and hundreds • add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • estimate the answer to a calculation and use inverse operations to check answers • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction 	<ul style="list-style-type: none"> ➔ Add and subtract multiples of 100 e.g. $300 + 400$ ➔ Add and subtract 3-digit and 1-digit numbers – not crossing 10 ➔ Add a 3-digit number and 1 digit number – crossing 10 ➔ Subtract a 1-digti number from a 3-digit number – crossing 10 ➔ Add and subtract 3-digit and a 2-digit numbers – not corssing 10 ➔ Add 3 digit and 2-digit number- crossing 100 ➔ Subtract a 2-digit number from a 3-digit number – crossing 100 ➔ Add and subtract 100s e.g. $345 + 100$ ➔ Consolidate learning by Spotting patterns. $456 + 1$ $456 + 10$ $456 + 100$ ➔ Add and subtract a 2-digti number and 3-digit number – not crossing 10 or 100 ➔ Add a 2 digit and 3 digit number – crossing 10 or 100 ➔ Subtract a 2-digit number froma 3-digti number – crossing 10/ 100 ➔ Add two 3-digti numbers – not crossing 10/100 ➔ Add two 3-digit numbers–crossing 10/100 ➔ Subtract two 3-digit numbers – no exchange ➔ Subtract two 3-digits -exchange ➔ Estimate answers to calculations ➔ Check answers 	<p>Place value 3D Shape Time Length and height Fractions Money Position and direction Addition and subtraction Multiplication and division</p>	
S P	NC Objectives	Small steps	Fluency	Resources

	<ul style="list-style-type: none"> recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. add and subtract amounts of money to give change, using both £ and p in practical contexts 	<p><u>Multiplication & Division</u></p> <ul style="list-style-type: none"> → Multiplication – Equal groups → Multiply by 3 → Divide by 3 → Multiply by 4 → Divide by 4 → Multiply by 8 → Divide by 8 → Problems involving 3,4,8 times tables → Comparing statements → Related calculations → Multiply 2-digits by 1-digit partitioning → Multiply 2-digits by 1-digit on a number line → Multiply 2-digit by 1-digit Grid → Expanded → compact → Divide 2 digits by 1 digit by partitioning and sharing with no exchange → Divide 2 digits by 1 digit with remainders Grouping on a number line → Chunking → short division → Scaling problems → How many ways (corresponding problems) <p><u>Measurement: Money</u></p> <ul style="list-style-type: none"> → Pounds and pence → Convert pounds and pence → Add money → Subtract money → Give change 	<p>Place value Addition and subtraction Multiplication and division Shape Time Weight and Volume Fractions Position and direction</p>	
Sp rin g 2	NC Objectives	Small steps	Fluency	Resources

	<ul style="list-style-type: none"> • measure the perimeter of simple 2-D shapes • measure, compare, add and subtract: lengths (m/cm/mm) • count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 • recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators • recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • recognise and show, using diagrams, equivalent fractions with small denominators • add and subtract fractions with the same denominator within one whole [for example, $\frac{7}{5} + \frac{7}{6} = \frac{7}{6}$] • compare and order unit fractions, and fractions with the same denominators • solve problems that involve all of the above 	<p><u>Measurement: Length & perimeter</u></p> <ul style="list-style-type: none"> ➔ Measure length (mm, cm, m) and decide on appropriate resource to use ➔ Equivalent lengths – m & cm ➔ Equivalent lengths – mm & cm ➔ Compare lengths ➔ Add lengths ➔ Subtract lengths ➔ Measure perimeter ➔ Calculate perimeter <p><u>Fractions</u></p> <ul style="list-style-type: none"> ➔ Making the whole ➔ Tenths ➔ Count in tenths ➔ Tenths as a decimal ➔ Fractions on a number line ➔ Find Unit- Fractions of an amount ➔ Fractions of amounts problems ➔ Equivalent fractions including using a number line ➔ Compare unit-fractions and fractions with the same denominator ➔ Order unit fractions and fractions with the same denominator ➔ Add fractions with the same denominator where the answer is less than 1 ➔ Subtract fractions with the same denominator within one whole 	<p>Place Value Time Length and height Fractions Money Addition and subtraction Multiplication and division</p>	<p>Trundle wheels, rulers, tape measure, meter stick</p> <p>Cuisenaire rods / bars / paper strips</p> <p>Bar models</p>
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Sum mer		<ul style="list-style-type: none"> tell and write the time from an analogue clock, including using Roman numerals from I to XII, 12/ 24-hour clocks estimate and read time with accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [to calculate the time taken by particular events draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines 	<p><u>Measurement: Time</u></p> <ul style="list-style-type: none"> → Months and years including leap years → Hours in a day → Telling the time to 5 minutes → Telling the time to the minute → Using a.m and p.m to describe time → 24-hour clock on a digital clock → Finding duration of time using analogue and digital → Comparing durations of time using analogue and digital → Start and end times to the nearest minute using analogue and digital clocks → Measure and compare duration of time in seconds <p><u>Geometry: properties of shape</u></p> <ul style="list-style-type: none"> → Recognise angles as a measure of turn $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$ whole turns clockwise and anti-clockwise → Understand Right angles in shapes → Compare angles → Draw accurately using cm and mm → Identify and find Horizontal and vertical lines → Identify Horizontal and vertical lines of symmetry in shapes and symbols → Identify, find Parallel and perpendicular lines → Recognise, describe and draw 2-D shapes including types of angles, symmetry, lines, lengths of sides to describe. → Recognise, describe and draw 3-D using different orientations, edges, faces, vertices, → Construct 3-D shapes 	Shape Fractions Length and height Weight and Volume Place Value Addition and subtraction Multiplication and division	
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	<ul style="list-style-type: none"> interpret and present data using bar charts, pictograms and tables 	<p><u>Statistics</u></p> <ul style="list-style-type: none"> → Read and interpret information from pictograms 	Shape Time Fractions		

	<ul style="list-style-type: none"> • solve one-step and two-step questions [for example, ‘How many more?’ and ‘How many fewer?’] using information presented in scaled bar charts and pictograms and tables ➔ measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) 	<ul style="list-style-type: none"> ➔ Construct pictograms ➔ Interpret tally charts and pictograms to construct bar charts ➔ Read and interpret bar charts with scales 1,2,5,10 and decide scales for their own bar charts ➔ Interpret information from tables to answer one and two-step problems ➔ Use addition and subtraction to ask and answer questions. <p><u>Measurement: Mass, Capacity, Temperature</u></p> <ul style="list-style-type: none"> ➔ Measure mass by reading a range of scales including with missing intervals (g, kg) ➔ Measure mass of objects and record as mixed measurements (g, kg) ➔ Compare mass using lighter (g) heavier (kg) ➔ Add and subtract mass using mental and written methods ➔ Measure capacity (l, ml, standard scales) ➔ Measure capacity with l and ml together ➔ Compare capacity (ml, l) ➔ Add and subtract capacity (l,ml) 	<p>Money</p> <p>Place Value – comparing numbers</p> <p>Addition and subtraction</p> <p>Multiplication and division</p>	
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