

Year 3 Maths Overview

The principles of Fluency, Problem Solving and Reasoning will be threaded throughout each unit.

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Autumn Consider missing number box questions (see arithmetic assessment) Answer at the start of a calculation. Balancing calculations with missing numbers. Missing number with inverse.	Place Value Previous – Numbers to 100. Ordering and comparing. Counting in 2s, 5s, 10s and 3s. Estimating and checking. <ul style="list-style-type: none"> Introduce hundreds (ten tens) Count in hundreds Make numbers to 1000 Read and write numbers to 1000 (zero as place holder) Partition into HTO and represent in different ways Identify PV on number line (proportionally) 1, 10, 100 more/less Compare objects Compare numbers Order numbers Count in 50s 			Addition and Subtraction Previous – Add 2-digit and 2-digit using expanded column method. Subtract a 2-digit from a 2-digit on a number line. Mentally add and subtract ones and tens separately. Add 3 single-digit numbers. <ul style="list-style-type: none"> Mentally add and subtract multiples of 100 (link to counting in 100s) Mentally add and subtract a 1-digit from a 3-digit number (no boundaries) Mentally add and subtract a 1-digit from a 3-digit number (boundaries) Mentally add and subtract a multiple of 10 with a 3-digit number (no boundaries) Mentally add and subtract a multiple of 10 with a 3-digit number (boundaries) Mentally add and subtract a multiple of 100 with a 3-digit number (no boundaries) Mentally add and subtract a multiple of 100 with a 3-digit number (boundaries) Add a 3-digit number to a 2-digit number (no boundaries) using expanded column Add a 3-digit number to a 2-digit number (boundaries) using expanded column Add a 3-digit number to a 3-digit number (no boundaries) using expanded column Add a 3-digit number to a 3-digit number (boundaries) using expanded column method Subtract a 3-digit number to a 2-digit number (no boundaries) using expanded column Subtract a 3-digit number to a 2-digit number (boundaries) using expanded column Subtract a 3-digit number to a 3-digit number (no boundaries) using expanded column Subtract a 3-digit number to a 3-digit number (boundaries) using expanded column Solve one-step whole number problems, including missing number problems, all operations, with numbers to 1000 (not higher than 'number) 				Multiplication and Division (Mental) Previous – Recognise x and ÷ symbols. Know 2, 5, 10 multiplication and division facts. Count in 3s. Make equal groups. Use equipment, arrays and number lines. <ul style="list-style-type: none"> Recap equal groups and how this is linked to multiplication and division Multiply and divide by 3 (3x table) Count in 4s Multiply and divide by 4 (4x table) Count in 8s Multiply and divide by 8 (8x table) Compare facts linked to earlier unit using <, > and =. Fact families linked to known facts 			Mop up	Assessment	Money Previous – Knows £ and p symbols. Can combine coins to make totals and different coins for the same amount. Can find totals of amounts, find the difference and calculate change. <ul style="list-style-type: none"> Recap values of coins and notes. Understand that same amount can be made in a variety of ways. Convert between pounds and pence (not decimal notation) Add money (pounds, then pence) Subtract money (convert to pence) Give change 		Investigations
Spring Consider white rose style word problems. Consider missing number box questions (see arithmetic assessment) Answer at the start of a calculation. Balancing calculations with missing numbers. Missing number with inverse.	Place Value/Addition and Subtraction <ul style="list-style-type: none"> Estimate answers using (near numbers) Check answers using and estimation Embed methods for addition and subtraction. Solve two-step whole number problems, all operations, with numbers to 1000 (not higher than 'number) 		Multiplication and Division <ul style="list-style-type: none"> Related facts (linked to previous unit) Multiply a 2-digit number by a 1-digit number, no carrying (column alongside concrete) Multiply a 2-digit number by a 1-digit number, with carrying (column alongside concrete) Divide a 2-digit number by a 1-digit number, no exchange or remainders (sharing equipment – tens first) Divide a 2-digit number by a 1-digit number, with exchange but no remainders (move from equipment to known facts) Divide a 2-digit number by a 1-digit number, introduce remainders (move to bus stop format) Scaling problems Possible combinations – link to multiplication and model systematic working. Solve two-step whole number problems, all operations, with numbers to 1000 (not higher than 'number) 		Statistics Previous – tally charts, pictograms (linked to 2s, 5s and 10s) and block graphs <ul style="list-style-type: none"> Recap pictograms – link key into new number facts Bar charts – use tally/pictogram to convert Read bar charts with scales of 1, 2, 5 and 10 Use tables to answer one and two step problems (link to addition and subtraction) Present information they have collected in tables Convert tables to pictograms and bar charts 		Fractions Previous – numerator and denominator, halves, quarters, thirds, unit and non-unit fractions. <ul style="list-style-type: none"> Recap parts and wholes linked to unit and non-unit fractions Totalling a whole Understanding tenths Counting in tenths Tenths as decimals Counting in fractions Representing fractions on a number line Unit fraction of an amount Non-unit fraction of an amount Solving fraction problems 		Length and Perimeter Previous – measure to nearest cm/m. Order and compare lengths. <ul style="list-style-type: none"> Measure length including mm Recognise equivalence between cm and m Recognise equivalence between cm and mm Compare lengths (using converting) Adding and subtracting lengths (mental and formal) Introduce perimeter Understand that different shapes can have the same perimeter Calculate perimeter of rectangles – repeated addition or link to multiplication Calculate perimeter of wider range of shapes. Find missing lengths in perimeter 		Assessment	Mop up			
Summer Consider white rose style word problems linked to assessment. Consider missing number box questions (see arithmetic	Fractions Previous – equivalence of ½ and ¼ <ul style="list-style-type: none"> Investigate equivalent fractions using equipment e.g Cuisenaire Compare images to identify equivalent fractions Find equivalent fractions by looking for links between numerators and denominators (x and ÷) Compare unit fractions Compare fractions with the same denominator 			Time Previous – time to 5 minute intervals. Minutes in hour, hours in day, etc. Compare and calculate durations within an hour. <ul style="list-style-type: none"> Months and years, including leap year. Calendars Recap hours in a day and vocabulary such as noon and midnight Recap time to 5 minute intervals (introduce roman numeral clocks) Time to nearest minute Introduce am and pm and digital clocks Compare 12 hr clocks to analogue 			Shape Previous – recognising main 2D and 3D shapes. Identifying properties such as side, vertices, edges, faces and lines of symmetry. Sorting shapes. Types of turns, clockwise and anti-clockwise. <ul style="list-style-type: none"> Understand that an angle is the measure of a turn. Recap turns Know a right-angle is a ¼ turn and identify in shapes. Compare angles introducing acute and obtuse Draw straight lines accurately Understand horizontal and vertical Find horizontal and vertical lines of symmetry Introduce parallel (use arrow notation) Introduce perpendicular (link to right angles) 			Mass and Capacity Previous – Measure in g, kg, l and ml. Use scales of 2,5 and 10. Compare measurements. <ul style="list-style-type: none"> Measure mass in a range of scales – kg or g (some unnumbered intervals) Measure mass with a mixture of Kg and g Compare mass using <, > and = Add and subtract mass 		Assessment	Mop up	investigations	

<p>assessment) Answer at the start of a calculation. Balancing calculations with missing numbers. Missing number with inverse.</p>	<ul style="list-style-type: none"> • Order unit fractions • Order fractions with the same denominator • Add fractions with the same denominator (not above 1) • Subtract fractions with the same denominator (not above 1) 	<ul style="list-style-type: none"> • Introduce 24hr clock • Compare 24hr to 12hr and analogue • Find time durations with a range of clocks (number line) • Compare time durations (longest, quickest, etc) • Find start and end times from duration • Measure time in seconds and compare duration 	<ul style="list-style-type: none"> • Identify parallel and perpendicular in a range of shapes, lines and patterns. • Recognise and describe 2D shapes using angles as well as other properties. • Sort 2D shapes based on angles and lines • Draw 2D shapes using known properties. • Recognise 3D shapes and describe with properties. • Understand the difference between flat face and curved surface. • Understand the difference between a prism and a pyramid • Construct 3D shapes 	<ul style="list-style-type: none"> • Measure capacity in l or ml (some unnumbered intervals) • Measure capacity with ml and l together • Compare capacities with <, > and = • Add and subtract capacity 			
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