Anton Junior School medium Term Planning

YEAR 4		
Weeks	**Domain**	**Y4 NC Objectives**
AUTUMN TERM		
Week 1 & 2	Number & Place Value	• Y3: Read and write numbers to at least 1000 in numerals and in words • Read Roman Numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value • Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) Up to 10,000 • Identify, represent, and estimate numbers using different representations including number-lines • Find 10 ,100, 1000 more or less than a given number • Round any number to the nearest 10,100,1000 • Count backwards through zero to include negative numbers using a number line. • Solve number and practical problems and practical problems that involve all of the above and with increasingly large positive numbers.
Week 3 & 4	Addition and Subtraction	• Y2:Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 • Y3:Compare and order numbers from zero up to 1000; using < , > and = signs • Y3: Add and subtract numbers mentally including a 3-digit number and ones and a 3-digit number and hundreds. • Estimate the answer to a calculation and use inverse operations to check answers • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Week 5	Addition and subtraction with Measurement	• Estimate, compare and calculate money in £ and p • Convert between units (£ and p)

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	(money)	Add and subtract amounts of money to give change using both £ and p to solve problems Use known and derived facts to work out change from £1 (100p), £10 , £100 Know 100p = £1; 2 x 50p = £1; 10 x 10p = £1; 5 x 20p = £1; 20 x 5p = £1; 50 x 2p = £1; relate to multiplication facts/ repeated addition in the context of money. Record addition and subtraction money calculations using pictorial representations such as a number-line and bar-models.
Week 6 & 7	Multiplication and division	• Use place value, known and derived facts to multiply and divide mentally, including multiplying 0 and 1 • Y2/3: Recall and use multiplication and division facts for the 2,3,4,5,8,10 multiplication tables. • Represent multiplication and division facts as arrays using a grid (rather than dots) and a number-line • Count in multiples of 3 and 4 from zero. • Recall and use multiplication and division facts for 6x and 12x multiplication tables • Solve problems including missing number problems involving multiplication and division, recording solutions with a range of representations to include number-lines, bar-models and arrays. • Solve problems involving multiplying and adding (partitioning and recombining). E.g. 37 x 8 = (30 x 8) + (7 x 8).

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Week 8 & 9	Fractions	• Yr 3: Count up and down in tenths (proper and decimal fractions); recognise that tenths arise from dividing and object into ten equal parts. Record using number lines (making explicit links with decimals) and bar models • Round decimals with one decimal place to the nearest whole number using different representations, including the number line • Find the effect of dividing a one-or two-digit number by 10 and 100; use place value understanding. • Recognise and show, using diagrams, families of common equivalent fractions • Count in halves, quarters and thirds on a number-line. • Add and subtract fractions with the same denominator

		(number-lines and bar-models)
Week 10	Geometry	• Compare and classify geometric shapes, including quadrilaterals based on their properties and sizes • Identify acute and obtuse angles • Complete a simple symmetric figure with respect to a specific line of symmetry • Describe positions on a 2-D grid as co-ordinates in the first quadrant ((x,y) co-ordinates)
Week 11	Place Value	• Recognise the place value of each digit in a 4-digit number (1000s,100s, 10s and ones) • Find 1000 more or less than a given number • Order and compare numbers beyond 1000 (represent on number lines)
Week 12	Measurement (Length)	• Y3: Measure and compare lengths (mm/cm/m/ km) • Convert between units (km to m, m to cm, cm to mm (x) and vice versa (÷) • Y3: Measure and compare mass (g/kg) Know that there are 1000g = 1 kg and derive associated facts: 500g = ½ kg ; 250 g = ¼ kg ; 750 g = ¾ kg; 100g = 1/10 kg; 10g = 1/100 kg

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Week 1 & 2	Fractions	• Recognise and show using diagrams, families of common equivalent fractions. • 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. • 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. • Count up and down in hundredths (represent on number lines) Recognise that hundredths arise when dividing and object by a hundred and dividing tenths by ten. • Round decimals with one decimal place to the nearest whole number (represent on number lines) • Recognise and write decimal equivalents to ¼, ½ and ¾ (represent on number lines and bar models)
Week	Geometry (WR Su)	• Compare and classify geometric shapes (triangles) based on their properties and sizes.

3		• Identify acute and obtuse angles • Identify lines of symmetry in 2-D shapes presented in different orientations • Describe positions on a 2-D grid as co-ordinates in the first quadrant ((x,y) co-ordinates) • Describe movements between positions as translations of a given unit to the left / right and up/down.
Week 4 & 5	Subtraction and addition	• Recall and use complements to 100 and 1000 to support mental strategies. • Record and addition and subtraction calculations using a combination of representations e.g. bar model, number-line, number sentence. • Add three numbers, with a sum of up to 1000. • Estimate and use inverse operations to check answers to a calculation • Add and subtract numbers with up to four digits using formal written methods building on the use of structured concrete resources to ensure conceptual understanding. • Solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why.

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Week 6	Measurement (Time) (WR Su)	• Read, write, and convert time between analogue and digital 12-hour and 24-hour clocks. • Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days. • Represent time intervals on a number-line • Know 1 hour = 60 minutes; ½ hour = 30 minutes, ¼ hour = 15 minutes, • ¾ hour = 45 minutes • Know I minute = 60 seconds; 365 days in a year (366 in a leap year); 14 days in a fortnight
Week 7 & 8	Multiplication and division	• Y3: Recall and use multiplication and division facts for the 2,3,4,5,8 and 10 multiplication tables. • Represent multiplication and division facts as arrays using a grid (rather than dots) and on a number-line • Count in multiples of 6,7 and 9 from zero. • Recall and use multiplication and division facts for up to 12 x 12 • 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 • Solve problems including missing number problems involving multiplication and division, recording solutions with a range of representations to include number-lines, bar-models, and arrays
Week 9	Fractions	• 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 • Find one tenth of an amount by dividing by ten and one hundredth by dividing by one hundred. • Know one tenth = 0.1 • Count in tenths and record on a number line beyond one
Week 10 & 11	Addition and Subtraction	• Add and subtract numbers with up to four digits using formal written methods building on the use of structured concrete resources to ensure conceptual understanding. • Solve comparison, sum and difference problems

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	with Statistics	using information presented in bar charts, pictograms and other graphs, e.g. bar charts for discrete data and time graphs for continuous data • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Week 12	Measurement Length and Perimeter	
Week 1 & 2	Place Value	• Count in multiples of 25 and 1000
Week 3& 4	Multiplication and division	• Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout • Y3: Count from zero in multiples of 3,4,8,50 and 100 • Y2: Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables. • Recall and use multiplication and division facts for 3 , 4 and 8 multiplication tables • Understand the links within and between tables facts • Solve problems including missing number problems involving multiplication and division
Week 5	Geometry	• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. • Identify acute and obtuse angles and compare and order angles up to two right angles by size • Plot specified points on a 2-D grid as coordinates in

		the first quadrant and draw sides to complete a given polygon. • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimeters and meters. • Find the area of rectilinear shapes by counting squares (on a grid)
Week 6 & 7	Addition and subtraction	• Add and subtract with numbers up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate • Estimate and use inverse operations to check answers to a calculation • Count backwards through zero to include negative

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	with statistics	numbers using a number line. • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
Week 8	Multiplication and division	• Recall 2/3/4/5/6/8 multiplication and division facts for multiplication tables up to 12 x 12 • Use place value, known and derived facts to multiply and divide mentally, including by 0 and 1; dividing by 1; multiplying three numbers together. • Recognise and use factor pairs and commutativity in mental calculations • Multiply two-digit and three-digit numbers by a one-digit number using formal written layout • Solve problems involving multiplying and adding including using the distributive law to multiply two-digit numbers by one digit (37 x 8 = (30 x 8) • + (7 x 8)), the associative law (2 × 3) × 4 = 2 × (3 × 4)). integer scaling problems (six times taller) and harder correspondence problems such as n objects are connected to m objects (e.g. the numbers of choices of a meal on a menu, or three cakes shared equally between 10 children). • Combine knowledge of number facts and rules of arithmetic to solve mental and written calculations for example, 2 x 6 x 5 = 10 x 6 = 60. • Solve two-step problems in contexts, choosing the appropriate operation, working with increasingly harder numbers. • Find the effect of dividing a one-or two-digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths

Week 9 & 10	Fractions	• Recognise and show using diagrams, families of common equivalent fractions. • 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 • Add and subtract fractions with the same denominator • Recognise and write decimal equivalents of any number of tenths or hundredths

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Week 11 & 12	Measurement (Money)	• Compare numbers with the same number of decimal places up to two decimal places. • Solve simple money problems involving fractions and decimals to two decimal places • Estimate, compare and calculate with money in £ and p • Read, write and convert between analogue and digital 12 and 24-hour clocks • Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days
End of Year		