



Kennington C.E. Academy

A member of Aquila, the Diocese of Canterbury Academies Trust



We are an Inclusive Community where Christian values empower us. With God's guidance we work with pride and passion to create life-long learners who fulfil their potential. If we work together, we will be the very best that we can be: achieving, celebrating and succeeding whilst having fun

Long Term Planning

Mathematics

Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Place Value			Addition and subtraction					Multiplication and division			
Autumn	Recap Represent numbers to 100			Add and subtract multiples of 100					Multiplication - equal groups			
	Recap Tens and ones using addition			Recap Add and subtracts 1s					Recap Multiplication using the symbol			
	Hundreds			Add and subtract 3-digit and 1-digit numbers - not crossing 10					Recap Using arrays			
	Numbers to 1,000			Recap Add a 2-digit and 1-digit number - crossing 10					Recap 2 times-table			
	Activity Numbers to 1,000 on a place value grid			Add 3-digit and 1-digit numbers - crossing 10					Recap 5 times-table			
	100s, 10s and 1s (1)			Recap Subtract a 1-digit number from 2-digits - crossing 10					Recap Make equal groups - sharing			
	100s, 10s and 1s (2)			Subtract a 1-digit number from a 3-digit number - crossing 10					Recap Make equal groups - grouping			
	Recap Number line to 100			Add and subtract 3-digit and 2-digit numbers - not crossing 100					Recap Divide by 2			
	Number line to 1,000			Add 3-digit and 2-digit numbers - crossing 100					Recap Divide by 5			
	Find 1, 10, 100 more or less			Subtract a 2-digit number from a 3-digit number - crossing 100					Recap Divide by 10			
	Compare objects			Add and subtract 100s					Multiply by 3			
	Compare numbers			Spot the pattern - making it explicit					Divide by 3			
	Order numbers			Recap Add two 2-digit numbers - crossing 10 - add ones & add tens					The 3 times-table			
	Count in 50s			Recap Subtract a 2-digit number from a 2-digit number - crossing 10 - subtract ones & subtract tens					Multiply by 4			
				New content Mixed addition and subtraction problems					Divide by 4			
									The 4 times-table			
									Multiply by 8			

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		Add and subtract 2-digit and 3-digit numbers - not crossing 10 or 100 Add 2-digit and 3-digit numbers - crossing 10 or 100 Subtract a 2-digit number from a 3-digit numbers - crossing 10 or 100 Add two 3-digit numbers - not crossing 10 or 100 Add two 3-digit numbers - crossing 10 or 100 Subtract a 3-digit number from a 3-digit number - no exchange Subtract a 3-digit number from a 3-digit number - exchange Estimate answers to calculations Check answers			Divide by 8 The 8 times-table	
Spring	Multiplication and division	Money	Statistics	Length and perimeter	Fractions	Consolidation
	Recap Consolidate 2, 4 and 8 times-table (new worksheet)	Recap Count money (pence)	Recap Make tally charts	Measure length	Recap Activity Working with wholes and parts	
	Comparing statements	Recap Count money (pounds)	Recap Draw pictograms (2, 5 and 10)	Recap Measure length (m)	Recap Make equal parts	
	Related calculations	Pounds and pence	Recap Interpret pictograms (2, 5 and 10)	Equivalent lengths - m & cm	Recap Recognise a half	
	Activity Multiply 2-digits by 1-digit - no exchange	Convert pounds and pence	Pictograms (use for extra consolidation if needed)	Equivalent lengths - mm & cm	Recap Find a half	
	Multiply 2-digits by 1-digit (1)	Add money		Recap Compare lengths	Recap Recognise a quarter	
	Activity Multiply 2-digits by 1-digit - exchange	Subtract money		Compare lengths	Recap Find a quarter	
	Multiply 2-digits by 1-digit (2)			Add lengths	Recap Recognise a third	
				Subtract lengths	Recap Find a third	

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	Divide 2-digits by 1-digit (1) Divide 2-digits by 1-digit (2) Activity Divide 100 into 2, 4, 5 and 10 equal parts Activity Divide with remainders Divide 2-digits by 1-digit (3) Scaling How many ways?	Give change	Activity Draw bar charts Bar charts Tables	Activity What is perimeter? Measure perimeter Calculate perimeter Activity Calculate perimeter activity	Recap Unit fractions Recap Non-unit fractions Unit and non-unit fractions (use for consolidation if needed) Recap Equivalence of a half and 2 quarters Recap Count in fractions	
Summer	Fractions	Time		Properties of shape	Mass and Capacity	Consolidation
	Making the whole	Recap O'clock and half past		Turns and angles	Activity Measure mass	
	Tenths	Recap Quarter past and quarter to		Right angles in shapes	Recap Compare mass	
	Count in tenths	Months and years		Compare angles	Measure mass (1)	
	Tenths as decimals	Hours in a day		Draw accurately	Measure mass (2)	
	Fractions on a number line	Telling the time to 5 minutes		Horizontal and vertical	Compare mass	
	Fractions of a set of objects (1)	Telling the time to the minute		Parallel and perpendicular	Add and subtract mass	
	Fractions of a set of objects (2)	Using a.m. and p.m.		Recognise and describe 2-D shapes	Activity Measure capacity	
	Fractions of a set of objects (3)	Activity 24-hour clock			Recap Compare volume	
	Equivalent fractions (1)	24-hour clock			Measure capacity (1)	
	Equivalent fractions (2)	Finding the duration		Recognise and describe 3-D shapes	Measure capacity (2)	

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	Equivalent fractions (3)	Comparing durations	Make 3-D shapes	Compare capacity	
	Compare fractions	Start and end times		Add and subtract capacity	
	Order fractions	Measuring time in seconds		Activity Temperature activity	
	Add fractions	Problem solving with time		Recap Temperature	
	Subtract fractions				

Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Place value				Addition and subtraction			Length and perimeter		Multiplication and division		
Autumn	Recap Numbers to 1,000				Add and subtract 1s, 10s, 100s and 1,000s			Recap Equivalent lengths - m and cm		Multiply by 10		
	Recap 100s, 10s and 1s (1)				Recap Add two 3-digit numbers - not crossing 10 or 100			Recap Equivalent lengths - mm and cm		Multiply by 100		
	Recap Number line to 1,000				Add two 4-digit numbers - no exchange			Kilometres		Divide by 10		
	Round to the nearest 10				Recap Add two 3-digit numbers - crossing 10 or 100			Recap Add lengths		Divide by 100		
	Round to the nearest 100				Add two 4-digit numbers - one exchange			Recap Subtract lengths		Multiply by 1 and 0		
	Count in 1,000s				Add two 4-digit numbers - more than one exchange			Recap Measure perimeter		Divide by 1 and itself		
	Activity Represent numbers to 10,000				Recap Subtract a 3-digit number from a 3-digit number - no exchange			Perimeter on a grid		Recap Multiply and divide by 3		
	1,000s, 100s, 10s and 1s				Recap Subtract a 3-digit number from a 3-digit number - exchange			Perimeter of a rectangle		Recap The 3 times-table		
	Partitioning				Subtract two 4-digit numbers - no exchange			Perimeter of rectilinear shapes		Multiply and divide by 6		
	The number line to 10,000				Recap Subtract a 3-digit number from a 3-digit number - exchange					6 times-table and division facts		
	Recap Find 1, 10, 100 more or less				Subtract two 4-digit numbers - one exchange					Multiply and divide by 9		
	1,000 more or less				Recap Subtract a 3-digit number from a 3-digit number - exchange					9 times-table and division facts		
	Compare 4-digit numbers				Subtract two 4-digit numbers - more than one exchange					Multiply and divide by 7		
	Order numbers									7 times-table and division facts		
	Round to the nearest 1,000											
	Count in 25s											
	Activity Introducing negative numbers											

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	Negative numbers Roman numerals		Efficient subtraction Estimate answers Checking strategies		
Spring	Multiplication and division	Area	Fractions	Decimals	Consolidation
	11 and 12 times-table	What is area?	Recap Unit and non-unit fractions	Activity Tenths and hundredths	
	Multiply 3 numbers		What is a fraction?	Recognise tenths and hundredths	
	Factor pairs	Counting squares	Recap Tenths	Tenths as decimals	
	Efficient multiplication	Making shapes	Recap Count in tenths	Tenths on a place value grid	
	Written methods		Recap Equivalent fractions (1)	Tenths on a number line	
	Recap Multiply 2-digits by 1-digit	Comparing area	Recap Equivalent fractions (2)	Divide 1-digit by 10	
	Multiply 2-digits by 1-digit		Equivalent fractions (1)	Divide 2-digits by 10	
	Multiply 3-digits by 1-digit		Equivalent fractions (2)	Hundredths	
	Recap Divide 2-digits by 1-digit (2)		Fractions greater than 1	Hundredths as decimals	
	Divide 2-digits by 1-digit (1)		Count in fractions	Hundredths on a place value grid	
	Recap Divide 2-digits by 1-digit (3)		Recap Add fractions	Divide 1 or 2-digits by 100	
	Divide 2-digits by 1-digit (2)		Add 2 or more fractions		
	Divide 3-digits by 1-digit		Recap Subtract fractions		
	Correspondence problems		Subtract 2 fractions		
			Subtract from whole amounts		

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			Recap Fractions of a set of objects (1) Recap Fractions of a set of objects (2) Calculate fractions of a quantity Problem solving - calculate quantities				
Summer	Decimals	Money	Time	Statistics	Properties of shape	Position and direction	Consolidation
	Recap Bonds to 10 and 100 (Worksheet 1)	Pounds and pence	Recap Telling the time to 5 minutes	Interpret charts	Recap Turns and angles	Describe position	
	Recap Bonds to 10 and 100 (Worksheet 2)	Ordering money	Recap Telling the time to the minute	Comparison, sum and difference	Recap Right angles in shapes	Draw on a grid	
	Make a whole	Estimating money	Recap Using a.m. and p.m.	Introducing line graphs	Recap Compare angles	Move on a grid	
	Activity Write decimals	Recap Convert pounds and pence	Recap 24-hour clock	Line graphs	Identify angles	Describe movement on a grid	
	Write decimals	Recap Add money	Hours, minutes and seconds		Compare and order angles		
	Compare decimals	Recap Subtract money	Years, months, weeks and days		Recap Recognise and describe 2-D shapes		
	Order decimals	Recap Give change	Activity Analogue to digital (first part of worksheet)		Activity Triangles		
	Activity Round decimals	Activity Working with money	Analogue to digital - 12 hour (second part of worksheet)		Triangles		
	Round decimals	Four operations	Analogue to digital - 24 hour		Activity Quadrilaterals		
	Halves and quarters				Quadrilaterals		
					Activity Symmetry		
					Recap Horizontal and Vertical		

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					Lines of symmetry Complete a symmetric figure		
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Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Place value			Addition and subtraction		Statistics		Multiplication and division			Perimeter and area	
Autumn	Recap 1,000s, 100s, 10s and 1s Numbers to 10,000			Recap Add two 4-digit numbers - one exchange		Recap Interpret charts		Multiples			Measure perimeter	
	Recap Rounding to the nearest 10			Recap Add two 4-digit numbers - more than one exchange		Recap Comparison, sum and difference		Factors			Recap Perimeter on a grid	
	Recap Rounding to the nearest 100			Recap Add two 4-digit numbers - more than one exchange		Recap Introduce line graphs		Common factors			Recap Perimeter of rectangles	
	Rounding to 10, 100 and 1,000			Add whole numbers with more than 4 digits (column method)		Read and interpret line graphs		Activity Prime numbers			Recap Perimeter of rectilinear shapes	
	Numbers to 100,000			Recap Subtract two 4-digit numbers - one exchange		Draw line graphs		Prime numbers			Calculate perimeter	
	Compare and order numbers to 100,000			Recap Subtract two 4-digit numbers - more than one exchange		Use line graphs to solve problems		Square numbers			Recap Counting squares	
	Round numbers within 100,000			Recap Subtract two 4-digit numbers - more than one exchange		Read and interpret tables		Cube numbers			Recap Multiply by 10	
	Numbers to a million			Recap Subtract two 4-digit numbers - more than one exchange		Two-way tables		Recap Multiply by 100			Area of rectangles	
	Counting in 10s, 100s, 1,000s, 10,000s and 100,000s			Subtract whole numbers with more than 4 digits (column method)		Timetables		Multiply by 10, 100 and 1,000			Area of compound shapes	
	Compare and order numbers to one million			Round to estimate and approximate				Recap Divide by 10			Area of irregular shapes	
	Round numbers to one million			Inverse operations (addition and subtraction)				Recap Divide by 100				
	Negative numbers							Divide by 10, 100 and 1,000				
	Roman numerals							Multiples of 10, 100 and 1,000				

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		Multi-step addition and subtraction problems			
Spring	Multiplication and division	Fractions		Decimals and percentage	Consolidation
	Recap Multiply 2-digits by 1-digit	Recap What is a fraction?		Decimals up to 2 d.p.	
	Recap Multiply 3-digits by 1-digit	Recap Equivalent fractions		Decimals as fractions (1)	
	Multiply 4-digits by 1-digit	Equivalent fractions		Decimals as fractions (2)	
	Multiply 2-digits (area model) - first part of worksheet	Recap Fractions greater than 1		Understand thousandths	
	Multiply 2-digits (area model) - second part of worksheet	Improper fractions to mixed numbers		Thousandths as decimals	
	Multiply 2-digits by 2-digits	Mixed numbers to improper fractions		Rounding decimals	
	Multiply 3-digits by 2-digits	Number sequences		Order and compare decimals	
	New content Multiply 4-digits by 2-digits (basic practice)	Compare and order fractions less than 1 (first part of worksheet)		Understand percentages	
	Multiply 4-digits by 2-digits	Compare and order fractions less than 1 (second part of worksheet)		Percentages as fractions and decimals	
	Recap Divide 2-digits by 1-digit (1)	Compare and order fractions greater than 1 (first part of worksheet)		Equivalent F.D.P	
	Recap Divide 2-digits by 1-digit (2)	Compare and order fractions greater than 1 (second part of worksheet)			
	Recap Divide 3-digits by 1-digit	Add and subtract fractions			
	Divide 4-digits by 1-digit	Activity Add fractions within 1			
	Divide with remainders	Add fractions within 1			
		Add 3 or more fractions			

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		Add fractions Activity Add mixed numbers Add mixed numbers Subtract fractions Subtract mixed numbers Subtraction - breaking the whole Subtract 2 mixed numbers Multiply unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by integers Recap Calculate fractions of a quantity Fraction of an amount Using fractions as operators New content Fraction problem solving				
Summer	Consolidation	Decimals	Properties of shape	Position and direction	Converting units	Volume
		Adding decimals within 1 Subtracting decimals within 1	Recap Identify angles Recap Compare and order angles	Recap Describe position Recap Draw on a grid	Recap Kilometres Kilograms and kilometres	What is volume?

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		<p>Complements to 1</p> <p>Adding decimals - crossing the whole</p> <p>Adding decimals with the same number of decimal places</p> <p>Subtracting decimals with the same number of decimal places</p> <p>New content Adding and subtracting decimals with the same number of decimal places problem solving</p> <p>Adding decimals with a different number of decimal places</p> <p>Subtracting decimals with a different number of decimal places</p> <p>New content Adding and subtracting decimals with a different number of decimal places problem solving</p> <p>Adding and subtracting wholes and decimals</p> <p>Decimal sequences</p> <p>Multiplying decimals by 10, 100 and 1,000</p> <p>Dividing decimals by 10, 100 and 1,000</p>	<p>Measuring angles in degrees</p> <p>Measuring with a protractor (1)</p> <p>Measuring with a protractor (2)</p> <p>Activity Drawing lines and angles accurately</p> <p>Drawing lines and angles accurately</p> <p>Calculating angles on a straight line</p> <p>Calculating angles around a point</p> <p>Recap Triangles</p> <p>Recap Quadrilaterals</p> <p>Calculating lengths and angles in shapes</p> <p>Regular and irregular polygons</p> <p>Reasoning about 3-D shapes</p>	<p>Position in the first quadrant</p> <p>Translation</p> <p>Translation with coordinates</p> <p>Recap Line of symmetry</p> <p>Recap Complete a symmetric figure</p> <p>Reflection</p> <p>Reflection with coordinates</p>	<p>Millimetres and millilitres</p> <p>Activity Metric units</p> <p>Metric units</p> <p>Activity Imperial units</p> <p>Imperial units</p> <p>Converting units of time</p> <p>Timetables</p>	<p>Compare volume</p> <p>Estimate volume</p> <p>Estimate capacity</p>
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Maths Long Term Plan

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Year 6

	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	Place value		Addition, subtraction, multiplication and division					Fractions				Consolidation
	Recap Numbers to 10,000		Recap Add whole numbers with more than 4 digits (column method)					Recap Equivalent fractions				
	Recap Numbers to 100,000		Recap Subtract whole numbers with more than 4 digits (column method)					Simplify fractions				
	Recap Numbers to a million		Recap Inverse operations (addition and subtraction)					Recap Improper fractions to mixed numbers				
	Numbers to 10 million		Recap Multi-step addition and subtraction problems					Fractions on a number line				
	Compare and order any numbers		Add and subtract integers					Compare and order (denominator)				
	Recap Round numbers to 10, 100 and 1,000		Recap Multiply 4-digits by 1-digit					Compare and order (numerator)				
	Round any number		Recap Multiply 2-digits (area model)					Add and subtract fractions (1)				
	Activity Negative numbers		Recap Multiply 2-digits by 2-digits					Activity Add and subtract fractions activity (denominators are not multiples)				
	Negative numbers		Recap Multiply 3-digits by 2-digits					Add and subtract fractions (2)				
			Multiply up to a 4-digit number by a 2-digit number					Recap Add mixed numbers				
			Recap Divide 4-digits by 1-digit					Add fractions				
			Recap Divide with remainders					Recap Subtract mixed numbers				
			Short division					Subtract fractions				
			Division using factors					Mixed addition and subtraction				
		Long division (1)					Multiply fractions by integers					
		Long division (2)										

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Autumn	Long division (3) Long division (4) Recap Factors Common factors Common multiples Primes to 100 Squares and cubes Order of operations Mental calculations and estimation Reason from known facts			Multiply fractions by fractions Divide fractions by integers (1) Divide fractions by integers (2) Four rules with fractions Fraction of an amount Fraction of an amount - find the whole			
Spring	Decimals	Percentages	Algebra	Converting units	Perimeter, area and volume	Ratio	Consolidation
	Recap Decimals up to 2 d.p.	Recap Understand percentages	Find a rule - one step	Metric measures	Shapes - same area	Use ratio language	
	Recap Understand thousandths	Fractions to percentages	Find a rule - two step	Convert metric measures	Area and perimeter	Ratio and fractions	
	Three decimal places	Equivalent FDP	Forming expressions	Calculate with metric measures	Area of a triangle (1)	Introducing the ratio symbol	
	Multiply by 10, 100 and 1,000	Order FDP	Substitution	Forming equations	Area of a triangle (2)	Activity Calculating ratio	
	Divide by 10, 100 and 1,000	Percentage of an amount (1)	Formulae	Solve simple one-step equations	Area of a triangle (3)	Calculating ratio	
				Miles and kilometres	Area of a parallelogram	Using scale factors	

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	Multiply decimals by integers	Percentage of an amount (2)	Solve two-step equations	Imperial measures	Recap What is volume?	Calculating scale factors	
	Divide decimals by integers	Percentages - missing values	Find pairs of values (1)		Volume - counting cubes	Ratio and proportion problems	
	Division to solve problems		Find pairs of values (2)		Volume of a cuboid	New content Ratio and proportion problems (2)	
	Decimals as fractions						
	Fractions to decimals (1)						
	Fractions to decimals (2)						
Summer	Statistics	Properties of shape		Consolidation and themed projects			
	Read and interpret line graphs	Measure with a protractor					
	Draw line graphs	Recap Draw lines and angles accurately					
	Use line graphs to solve problems	Introduce angles					
	Circles	Recap Angles on a straight line					
	Read and interpret pie charts	Recap Angles around a point					
	Pie charts with percentages	Calculate angles					
	Draw pie charts	Vertically opposite angles					
		Angles in a triangle					
	Angles in a triangle - special cases						

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	The mean	Angles in a triangle - missing angles Angles in special quadrilaterals Angles in regular polygons Draw shapes accurately Draw nets of 3-D shapes	
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