Walkwood
Church of England Middle School

Mathematics

		Year 5 — 13 lessons per fortnight		
	Wk	Topic	Learning Aims	Assessment
Autumn	1 W/C 1st Sept	**Number 1- Place value**	- rounding numbers - read, write, order and compare numbers - Roman Numerals - negative numbers Key vocabulary: Rounding, negative, million	Weekly arithmetic tests throughout the year
	2 W/C 8th Sept			
	3 W/C 15th Sept			**Baseline GL assessments** Number 1 topic assessment- end of topic
	4 W/C 22nd Sept	**Calculations 1- Addition and subtraction**	- add and subtract decimals - solve addition and subtraction multi-step problems - use rounding to estimate and approximate - inverse operations - add and subtract integers - add and subtract numbers - mental addition and subtraction Key vocabulary: Addition, subtraction, inverse, exchange	
	5 W/C 29th Sept			Calculations 1 topic assessment- end of topic
	6 W/C 6th Oct	**Statistics 1**	- timetables - two-way tables - line graphs - comparison, sum and difference problems - tables - bar charts and pictograms Key vocabulary: Axis, interpret, line graph	**Autumn PIXL assessments**
	7 W/C 13th Oct			Statistics 1 topic assessment- end of topic
	8 W/C 20th Oct	**Number 2- Properties of number**	-cube numbers - multiply and dividing by 10, 100 and 1000 - prime numbers - square numbers - factors - multiples Key vocabulary: Cube, square, multiples, factors	
	9 W/C 3rd Nov			
	10 W/C 10th Nov			Number 2 topic assessment- end of topic
	11 W/C 17th Nov	**Measurement 1- Perimeter and area**	- area of compound shapes - area of irregular shapes - perimeter of rectilinear shapes - area of rectangles - measure perimeter - perimeter of rectangles - perimeter of shapes drawn on a grid Key vocabulary: Area, perimeter, rectilinear, compound	
	12 W/C 24th Nov			Measurement 1 topic assessment- end of topic

		Year 6 — 13 lessons per fortnight		
	Wk	Topic	Learning Aims	Assessment
	1 W/C 1st Sept	**Number 1- Place value**	- round whole numbers up to 10,000,000 - rounding - read, write, order and compare numbers - roman numerals - negative numbers Key vocabulary: Rounding, million, negative	Weekly arithmetic tests throughout the year
	2 W/C 8th Sept			Number 1 topic assessment- end of topic
	3 W/C 15th Sept	**Calculations 1- Addition Subtraction Multiplication Division Properties of numbers**	- written division - interpret division remainders - written multiplication - solve multi-step addition and subtraction problems - written addition and subtractions - inverse operations - order of operations - prime numbers - square and cube numbers - factors - multiples Key vocabulary: Remainders, prime, square, cube, factors, multiples	**Practice SATs Round 1**
	4 W/C 22nd Sept			
	5 W/C 29th Sept			Calculations 1 topic assessment A- end of topic
	6 W/C 6th Oct			
	7 W/C 13th Oct			Calculations 1 topic assessment B- end of topic
	8 W/C 20th Oct	**Number 2- Fractions**	- add and subtract fractions - compare and order fractions - convert between improper and mixed number fractions - simplify fractions - equivalent fractions - multiply fractions - divide fractions - fractions of amounts Key vocabulary: Improper, numerator, denominator, simplify, equivalent	
	9 W/C 3rd Nov			Number 2 topic assessment- A end of topic
	10 W/C 10th Nov			**Practice SATs Round 2**
	11 W/C 17th Nov			Number 2 topic assessment B- end of topic
	12 W/C 24th Nov	**Geometry 1- Position and direction**	- missing coordinates - reflect shapes - translate shapes - read and plot coordinates in four quadrants Key vocabulary: Coordinates, translate, reflect, quadrant	**Geometry 1-** topic assessment- end of topic

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Church of England Middle School

Mathematics

	13 W/C 1st Dec	**Consolidation lessons**	Teachers will cover areas for development identified in the autumn term topics.			13 W/C 1st Dec	**Consolidation lessons**	Teachers will cover areas for development identified in the autumn term topics.	
	14 W/C 8th Dec					14 W/C 8th Dec			
	15 W/C 15th Dec					15 W/C 15th Dec			
Spring	1 W/C 5th Jan	**Calculations 2- Multiplication and division**	- divide by 2-digit numbers - divide with remainders - divide by 2-digit numbers - solve multiplication and division multi-step problems Key vocabulary: Multiplication, division, remainder, place value			1 W/C 5th Jan	**Number 3- Decimals**	- identify the value of digits - multiply and divide decimals by integers - multiply and divide decimals by 10, 100 and 1000 - convert between fractions and decimals Key vocabulary: Decimal, value, digit, integer, fraction, multiply, divide	
	2 W/C 12th Jan					2 W/C 12th Jan			Number 3 topic assessment- end of topic **Practice SATs Round 3**
	3 W/C 19th Jan			Calculations 2 topic assessment- end of topic		3 W/C 19th Jan	**Number 4- Percentages**	-convert between fractions and percentages - identify equivalent fractions, decimals and percentages - order fractions, decimals and percentages - calculate percentages of amounts - create missing values when finding percentages of amounts - solve percentage word problems Key vocabulary: Fraction, decimal, percentage, amount, equivalent	
	4 W/C 26th Jan	**Number 3- Fractions**	- compare and order fractions and mixed numbers - convert between improper fractions and mixed numbers - identify equivalent fractions - add and subtract fractions and mixed numbers - multiply fractions, mixed numbers and integers - calculate fractions of amounts Key vocabulary: Fraction, numerator, denominator, mixed number, improper fraction, equivalent			4 W/C 26th Jan			Number 4 topic assessment- end of topic
	5 W/C 2nd Feb					5 W/C 2nd Feb	**Algebra 1**	-calculate inputs, outputs and functions - solve one and two-step equations - find pairs of numbers to satisfy equations - form expressions - identify a rule - substitute numbers into expressions - write formulas and equations Key vocabulary: Input, output, function, substitute, equation, formula	Algebra 1 topic assessment- end of topic
	6 W/C 9th Feb			**Spring PIXL assessments**		6 W/C 9th Feb	**Measurement 1- Converting units**	-convert between units of length, mass and capacity - convert between units of time - read and solve problems using timetables Key vocabulary: Measure, units, kilo, length, mass, capacity	Measurement 1 topic assessment- end of topic
	7 W/C 23rd Feb					7 W/C 23rd Feb	**Measurement 2- Area, perimeter and volume**	- Identify shapes with the same area and different perimeters - calculate the volume of cubes, cuboids and compound shapes - calculate the area of quadrilaterals and triangles Key vocabulary: Area, perimeter, volume, compound shapes	
	8 W/C 2nd March					8 W/C 2nd March			Measurement 2 topic assessment- end of topic **Practice SATs Round 4**

Walkwood
Church of England Middle School

Mathematics

	9 W/C 9th March			Number 3 topic assessment- end of topic	9 W/C 9th March	**Ratio and proportion**	-write a ratio using the symbol - represent ratio as a fraction - calculate ratios - calculate scale factors - use scale factors to enlarge shapes - solve ratio and proportion problems Key vocabulary: Ratio, proportion, scale factors, fraction	
	10 W/C 16th March	**Number 4- Decimals and percentages**	- order and compare decimals - calculate equivalent fractions, decimals and percentages - round decimals Key vocabulary: Decimal, percentage, equivalent, rounding		10 W/C 16th March			Ratio and proportion topic assessment- end of topic
	11 W/C 23rd March			Number 4 topic assessment- end of topic	11 W/C 23rd March	**Statistics 1**	- name parts of a circle - read, interpret and draw line graphs - read, interpret and draw pie charts, including with percentages - calculate the mean Key vocabulary: Graph, chart, mean, radius, diameter, interpret	Statistics 1 topic assessment- end of topic
Summer	1 W/C 13th April	**Number 5- Decimals**	- add and subtract decimals - compare and order decimals - multiply decimals by 10, 100 and 1000 - divide decimals by 10, 100 and 1000 Key vocabulary: Decimal, place value, compare, order, greater than, less than		1 W/C 13th April	**Geometry 2- Properties of shape**	-name, estimate, draw and measure angles - calculate missing angles around a point and on a straight line - calculate vertically opposite angles - calculate missing angles in triangles, quadrilaterals and regular polygons - draw nets of 3D shapes - draw shapes accurately Key vocabulary: Angles, acute, obtuse, reflex, degrees, full turn, straight line	Geometry 2 topic assessment- end of topic
	2 W/C 20th April				2 W/C 20th April	**SATs Revision & Consolidation**	Teachers will cover areas for development identified across all topics in preparation for SATs.	
	3 W/C 27th April			Number 5 topic assessment- end of topic	3 W/C 27th April			
	4 W/C 4th May	**Geometry 1- Properties of shape**	- name angles - measure and draw angles - compare and order angles - calculate angles around a point - draw lines accurately - name and identify the properties of triangles - name and identify the properties of quadrilaterals - calculate missing lengths and angles - name and identify regular and irregular polygons Key vocabulary: Angle, acute, obtuse, reflex, degrees, full turn, straight line		4 W/C 4th May			
	5 W/C 11th May				5 W/C 11th May			**SATs Week**
	6 W/C 18th May			Geometry 1 topic assessment- end of topic	6 W/C 18th May	**Consolidation**	Teachers will revisit any areas of weakness and topics that were not covered in enough depth prior to SATs. Topics may include measurement, statistics, algebra, ratio and proportion.	
	7 W/C 1st June	**Geometry 2- Position and direction**	- write coordinates - plot points - identify lines of symmetry - translate points and shapes - reflect points and shapes Key vocabulary: Reflect, translate, coordinates, points, symmetry		7 W/C 1st June			
	8 W/C 8th June			Geometry 2 topic assessment- end of topic **Autumn PIXL assessments**	8 W/C 8th June			

Walkwood
Church of England Middle School

Mathematics

	9 W/C 15th June	**Measurement 2-Converting units**	- convert between units of length, mass and capacity - convert between units of time - read and solve problems using timetables Key vocabulary: Measure, units, kilo, length, mass, capacity			9 W/C 15th June			
	10 W/C 22nd June			Measurement 2 topic assessment- end of topic		10 W/C 22nd June			
	11 W/C 29th June	**Measurement 3-Volume**	-describe and name units of volume and capacity - estimate and compare volume and capacity Key vocabulary: Volume, capacity, estimate, compare, units	Measurement 3 topic assessment- end of topic		11 W/C 29th June			
	12 W/C 6th July	**Consolidation**	Teachers will cover areas for development identified in the summer term topics.			12 W/C 6th July			
	13 W/C 13th July					13 W/C 13th July			