

St Stephens Community Academy - Maths Scheme of Learning (Year 6) 2016

Year 6	Autumn		Spring		Summer	
Week	1	2	1	2	1	2
1	<p><u>Number-Place value/Addition</u> Place value in 6-digit numbers (PV additions/subtractions).</p> <p>Use column addition to add pairs of 5-digit numbers with 6-digit answers.</p>	<p><u>Number-Decimals/Subtraction</u> Add/subtract multiples of 0.01 to/from numbers with two decimal places, crossing multiples of 0.1.</p> <p>Subtract pairs of numbers with two decimal places</p>	<p><u>Number - Place Value</u> : Place value in 7-digit numbers (PV + and -, compare numbers). : Add and subtract 1, 10, 100, 1000, 10,000, 100,000 and 1,000,000 to/from 7-digit numbers. : Place 7-digit nos on number lines and round to the nearest 10,000, 100,000 or 1,000,000. Use negative numbers in context of temperature; Calculate rises and falls in temperature</p>	<p><u>Algebra</u> Understand and use simple formulae. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns, Enumerate possibilities of combinations of two variables. Generate and describe linear number sequences</p>	<u>SATS Revision</u>	<i>Problem solving</i>
2	<p><u>Number-Decimals/Addition</u> Understand place value in numbers with three decimal places.</p> <p>Add 2 or 3 amounts of money</p>	<p><u>Number-Multiplication</u> Use long multiplication to multiply 3-digit numbers by numbers between 10 and 30.</p>	<p><u>Number-Addition and Subtraction</u> : Add and subtract near multiples of powers of 10 including decimals (e.g. +/- 2.99, 3.02). Use knowledge of the order</p>	<p><u>Number-Fractions, ratio and percentages</u> Describe ratios between unequal quantities, e.g. paint; Solve ratio problems, e.g. in context of recipes. Find percentages, link to</p>	<u>SATS Revision</u>	<i>Problem solving</i>

	using column addition; Use rounding to check answers.		<p>of operations and brackets to carry out calculations.</p> <p>Explore the order of operations using brackets; for example, $2 + 1 \times 3 = 5$ and $(2 + 1) \times 3 = 9$.</p> <p>find change from £100; Use column addition to add several amounts.</p> <p>Solve multi-step word problems; Use brackets to record the necessary calculations.</p>	proportion		
3	<p><u>Addition and subtraction</u> Add several prices, then find change from £50 and £100.</p> <p>Use column subtraction (decomposition) to subtract 3-digit numbers and 4-digit numbers from 5-digit numbers</p>	<p><u>Number- x / + and -</u> Choose how to solve a mix of +, -, \times and \div mental and written calculations.</p> <p>Choose which operation(s) are necessary to solve single-step and multi-step word problems.</p>	<p><u>Number-Decimals, Addition and subtraction</u> Place value addition and subtraction of numbers with 3 decimal places.</p> <p>Multiply and divide by 10, 100 and 1000 (answers from 3dp to 7-digit whole numbers).</p> <p>Round decimals to the nearest whole, tenth and hundredth.</p>	<p><u>Number - Multiplication and Division</u> Use short multiplication to multiply 4-digit numbers by single-digit numbers.</p> <p>Use long multiplication to multiply 3-digit numbers, then 4-digit numbers by numbers between 10 and 35; Use rounding to approximate.</p>	<u>SATS Revision</u>	<i>Problem solving</i>
4	<p><u>Number-Multiplication and division/Fractions</u> Find common multiples and factors.</p>	<p><u>Number-Fractions</u> Use common multiples to express fractions in the same denomination; Compare and order</p>	<p><u>Multiplication and division/Decimals</u> Solve problems involving rate.</p>	<p><u>Number - Multiplication and Division</u> Use short division to divide 4-digit numbers by single-digit numbers, and 11 and 12; Divide</p>	<u>SATS Revision</u>	Transition work

	Find equivalent fractions; Simplify fractions using multiples and factors. Compare and order fractions with unrelated denominators.	fractions with unrelated denominators. Add fractions with unrelated denominators. Subtract fractions with unrelated denominators	: Use mental strategies (factors and multiples) to multiply by 5, 20, 6, 4 and 8; Solve scaling problems. Multiply and divide numbers with up to 2dp, e.g. 0.4×6 , $3.5 \div 7$, 5×0.03 , $0.15 \div 3$. Use long multiplication to multiply 3-digit then 4-digit numbers by numbers between 10 and 35; Use rounding to approximate.	remainders to give fractions/decimals, round up or down. Use long division to divide 3-digit numbers by 2-digit numbers.		
5	<u>Number-Multiplication</u> 5 digit and 6 digit numbers round to nearest 10, 100, 1000, 10,000 or 100,000. Revise using short multiplication to multiply 4-digit numbers by single-digit numbers; Round to approximate answers	<u>Measures</u> Convert between grams and kilograms, millilitres and litres. Know regularly used imperials units and approximate metric equivalents. Read timetables using the 24-hour clock; calculate time intervals (at least 3 hours).	<u>Fractions, Division</u> Revise comparing fractions Recognise equivalent fractions, decimals and percentages. Find percentages of amounts. Use mental division strategies to find non-unit fractions of amounts.	<u>Geometry</u> Plot points and draw polygons in all 4 quadrants. Work out new co-ordinates after a translation or reflection. Interpret and construct pie charts..	<i>Problem solving and investigations</i>	Transition Work
6	<u>Number -Fractions/Division</u> Recognise fraction and decimal equivalents. Use short division to divide 3/4-digit by 1-digit numbers and by 11 and 12; Round up	<u>Geometry</u> Name parts of circles. Classify and sort quadrilaterals. .Know the totals of angles inside triangles and inside	<u>Number-Fractions/Division</u> Multiply and divide fractions. Use long division to divide 3-digit numbers by 2-digit numbers. Use long division to divide 3-	<u>Measures</u> Find the area of triangles and parallelograms. Recognise that shapes with the same areas can have different perimeters and vice versa.	<i>Problem solving and investigations</i>	Transition Work

	<p>or down.</p> <p>Use short division to divide 4-digit numbers by 1-digit numbers, writing fraction parts of answers as decimals, e.g. 23% as 23.75.</p>	<p>quadrilaterals and use to find missing angles.</p>	<p>digit numbers by 2-digit numbers; divide any remainders to give fractions, and decimals where equivalents are known.</p>	<p>Find volumes of cubes and cuboids.</p>		
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