	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
3	Place value 3.5	Addition and subtraction 1	Multiplication and division	Fractions 4	Time 2	Money 1
	Addition and subtraction 3	Multiplication and division	2	Time 2	Shape 2	Statistics 2
		6	Perimeter and length 3		Money 1	Mass and capacity 2/3
4	Place value 3.5	Multiplication and division	Perimeter and length 3	Fractions 2	Time 2	Money 1
	Addition and subtraction 3	7	Fractions 2	Decimals 4	Shape 2	Statistics 2
					Money 1	Position and direction 2
5	Place value 4.5	Multiplication and division	Area, perimeter and	FDP 6	FDP 2	Negative numbers 1
	addition and subtraction 2	7	volume 3		Shape 2	Statistics 2
			Fractions 2		Convert units Time 1	Position and direction 2
6	Place value 4.5	Multiplication and division	Area, perimeter and	FDP 6	Ratio 2	Algebra 1
	Addition and subtraction 2	5	volume 3		Shape 2	Statistics 2
		Convert units 2	Fractions 2		Algebra 1	Position and direction 2

Year 3	National curriculum objectives
	<u>Place value</u>
	recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)
	read and write numbers up to 1,000 in numerals and in words
	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
	identify, represent and estimate numbers using different representations
	compare and order numbers up to 1,000
	solve number problems and practical problems involving these ideas
	Addition and subtraction
-	add and subtract numbers mentally, including:
	a three-digit number and 1s
Autumn	a three-digit number and 10s
₽	a three-digit number and 100s
Au A	add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction
	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
	Addition and subtraction
	estimate the answer to a calculation and use inverse operations to check answers
	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
7	Multiplication and division
	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
E	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using
₽	mental and progressing to formal written methods
Autumn	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects

South Stoke	e Primary School KS2 Long Term Plan
	Multiplication and division
	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using
	mental and progressing to formal written methods
-	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are
	connected to m objects
. <u>چ</u> .	Length and perimeter
ا <u>د</u>	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Spring	measure the perimeter of simple 2-D shapes
	Fractions Control of the control of
	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
	recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
	recognise and show, using diagrams, equivalent fractions with small denominators
	compare and order unit fractions, and fractions with the same denominators and and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7}$]
	$+\frac{1}{7} = \frac{6}{7}$
0	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
9,	Time
Spring	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
٦	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning,
S	afternoon, noon and midnight
	Time
	know the number of seconds in a minute and the number of days in each month, year and leap year
	compare durations of events
	Shape
	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
-	identify horizontal and vertical lines and pairs of perpendicular and parallel lines
Summer	recognise angles as a property of shape or a description of a turn
Ĕ	identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right
₹	angle
ା ଅ	Money
4 ,	add and subtract amounts of money to give change, using both £ and p in practical contexts
	Money
2	add and subtract amounts of money to give change, using both £ and p in practical contexts
	<u>Statistics</u>
Summer	interpret and present data using bar charts, pictograms and tables
1 2	solve one-step and two-step questions [for example 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables
5	Mass and capacity
S	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
L	means of compared, and and cash acres congress (in annuly many logicy), relating capacity (it in)

Year 4 National curriculum objectives

South Sto	ke Primary School KS2 Long Term Plan
	Place value (including decimals)
	recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
	read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value
	count in multiples of 6, 7, 9, 25 and 1,000
	find 1,000 more or less than a given number
	count backwards through 0 to include negative numbers
	identify, represent and estimate numbers using different representations
	order and compare numbers beyond 1,000
	round any number to the nearest 10, 100 or 1,000
	solve number and practical problems that involve all of the above with increasingly large positive numbers
	count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10
	round decimals with 1 decimal place to the nearest whole number
1	compare numbers with the same number of decimal places up to 2 decimal places
\ \frac{1}{2}	Addition and subtraction
Autumn 1	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
5	estimate and use inverse operations to check answers to a calculation
<	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
	Multiplication and division (including decimals)
	recall multiplication and division facts for multiplication tables up to 12 × 12
	recognise and use factor pairs and commutativity in mental calculations
2	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
\ <u>\</u>	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 1 digit, integer scaling problems and harder correspondence problems
Autumn 2	such as n objects are connected to m objects
4	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
	Perimeter and length
	convert between different units of measure [for example, kilometre to metre; hour to minute]
	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
	find the area of rectilinear shapes by counting squares
	<u>Fractions</u>
	count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10
-	round decimals with 1 decimal place to the nearest whole number
වි	compare numbers with the same number of decimal places up to 2 decimal places
Spring	recognise and write decimal equivalents of any number of tenths or hundreds
يق	recognise and write decimal equivalents to $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$
S	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
<u> </u>	• • • • • • • • • • • • • • • • • • • •

South Stok	e Primary School KS2 Long Term Plan
	Fractions (and revise decimals)
	recognise and show, using diagrams, families of common equivalent fractions
	add and subtract fractions with the same denominator
	recognise and write decimal equivalents of any number of tenths or hundreds
	113
	recognise and write decimal equivalents to $\frac{1}{4}\frac{1}{2}\frac{3}{4}$
	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
8	round decimals with 1 decimal place to the nearest whole number
6	compare numbers with the same number of decimal places up to 2 decimal places
Spring	solve simple measure and money problems involving fractions and decimals to 2 decimal places
S	solve simple measure and money problems involving fractions and decimals to 2 decimal places
	<u>Time</u>
	read, write and convert time between analogue and digital 12- and 24-hour clocks
	convert between different units of measure [for example, kilometre to metre; hour to minute]
	solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days
	Shape
	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
1,1	identify lines of symmetry in 2-D shapes presented in different orientations
9	complete a simple symmetric figure with respect to a specific line of symmetry
Summer	identify acute and obtuse angles and compare and order angles up to 2 right angles by size
5	Money
Ŋ	estimate, compare and calculate different measures, including money in pounds and pence
	Money
	estimate, compare and calculate different measures, including money in pounds and pence
	Statistics
	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
0	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
<u>5</u>	Position and direction
Ē	
\(\bullet \)	describe positions on a 2-D grid as coordinates in the first quadrant
Summer	describe movements between positions as translations of a given unit to the left/right and up/down
- •	plot specified points and draw sides to complete a given polygon

Year 5 National curriculum objectives

Journ Stoke	Primary School KS2 Long Term Plan
	Place value including decimals
	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
	read Roman numerals to 1,000 (M) and recognise years written in Roman numerals
	round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
	solve number problems and practical problems that involve all of the above
	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
	round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
	read, write, order and compare numbers with up to 3 decimal places
	Addition and subtraction including decimals
	add and subtract numbers mentally with increasingly large numbers
1	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
Ē	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
1 2	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
Autumn 1	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
4	solve problems involving number up to 3 decimal places
	<u>Multiplication and division</u>
	identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers
	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
	establish whether a number up to 100 is prime and recall prime numbers up to 19
	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
	multiply and divide numbers mentally, drawing upon known facts
Autumn 2	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
≩	multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
1 7	solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes
🤄	solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
•	solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
	Perimeter, area and volume
	measure and calculate the perimeter of composite rectilinear shapes in cm and m
	calculate and compare the area of rectangles (including squares), including using standard units cm² and m², and estimate the area of irregular shapes
	estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]
	Fractions
7	compare and order fractions whose denominators are all multiples of the same number
ا گ	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
<u> </u>	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \cdot \frac{1}{5}$]
Spring 1	add and subtract fractions with the same denominator, and denominators that are multiples of the same number

South Sto	oke Primary School KS2 Long Term Plan			
	<u>FDP</u>			
	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams			
	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]			
	read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$]			
	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents			
7	round decimals with 2 decimal places to the nearest whole number and to 1 decimal place			
Spring	read, write, order and compare numbers with up to 3 decimal places			
ج ا	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction			
ğ	solve problems involving number up to 3 decimal places			
0)	solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ $\frac{1}{4}$ 1/5 2/5 4/5 , and those fractions with a denominator of a multiple of 10 or 25			
	Negative numbers			
	count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000			
	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0			
	<u>Shape</u>			
	identify 3-D shapes, including cubes and other cuboids, from 2-D representations			
	distinguish between regular and irregular polygons based on reasoning about equal sides and angles			
	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles			
	draw given angles, and measure them in degrees (°)			
	identify:			
	angles at a point and 1 whole turn (total 360°)			
-	angles at a point on a straight line and half a turn (total 180°)			
	other multiples of 90°			
<u> </u>	use the properties of rectangles to deduce related facts and find missing lengths and angles			
È	Convert units (time)			
Summer	convert between different units of metric measure [e.g. km and m; cm and m; cm and mm; g and kg; l and ml]			
0,	understand and use approximate equivalences between metric units and common imperial units such as ins, lbs and pts			
	Negative numbers			
7	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0			
	<u>Statistics</u>			
્રે ક	solve comparison, sum and difference problems using information presented in a line graph			
1 1	complete, read and interpret information in tables, including timetables			
Summer	Position and direction			
(0)	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed			

Year National curriculum objectives

South Stoke	e Primary School KS2 Long Term Plan
	Place value including decimals
	read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
	use negative numbers in context, and calculate intervals across 0
	round any whole number to a
	required degree of accuracy
	solve number and practical problems that involve all of the above
	identify the value of each digit in numbers given to 3 decimal places
1	Addition and subtraction including decimals
Autumn 1	perform mental calculations, including with mixed operations and large numbers
5	use their knowledge of the order of operations to carry out calculations involving the 4 operations
5	use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
✓	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
	Multiplication and division including decimals
	identify common factors, common multiples and prime numbers
	perform mental calculations, including with mixed operations and large numbers
	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
	divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding,
	as appropriate for the context
	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
	solve problems involving addition, subtraction, multiplication and division
	use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
	identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places
7	multiply one-digit numbers with up to 2 decimal places by whole numbers
<u> </u>	use written division methods in cases where the answer has up to 2 decimal places
Autumn 2	Convert units
₹	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal
₹ ا	notation to up to 3 decimal places
	convert between miles and kilometres
	Area, perimeter and volume
	recognise that shapes with the same areas can have different perimeters and vice versa
	recognise when it is possible to use formulae for area and volume of shapes
	calculate the area of parallelograms and triangles
	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³
Spring 1	and km³]
වි	<u>Fractions</u>
·Ē	use common factors to simplify fractions; use common multiples to express fractions in the same denomination
ď	compare and order fractions, including fractions >1
0,	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
	<u>FDP</u>
7	multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]
၌	divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]
·i	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]
Spring 2	solve problems which require answers to be rounded to specified degrees of accuracy
()	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
	, countries of the state of the

Journ Stoke	e Primary School K52 Long Term Plan
	Ratio
	solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts
	solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison
	solve problems involving similar shapes where the scale factor is known or can be found
	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
	Shape
	draw 2-D shapes using given dimensions and angles
	recognise, describe and build simple 3-D shapes, including making nets
	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
	illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
	Algebra
	use simple formulae
Summer	generate and describe linear number sequences
ਵੋ	express missing number problems algebraically
💆	find pairs of numbers that satisfy an equation with 2 unknowns
0)	enumerate possibilities of combinations of 2 variables
	<u>Algebra</u>
	use simple formulae
	generate and describe linear number sequences
	express missing number problems algebraically
	find pairs of numbers that satisfy an equation with 2 unknowns
	enumerate possibilities of combinations of 2 variables
7	<u>Statistics</u>
	interpret and construct pie charts and line graphs and use these to solve problems
2	calculate and interpret the mean as an average
Summer	<u>Position and direction</u>
<u>'</u>	describe positions on the full coordinate grid (all 4 quadrants)
(0)	draw and translate simple shapes on the coordinate plane, and reflect them in the axes