

Mathematics Curriculum

Newstead Primary School

INTENT

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number and Place Value	count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number.	- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number - count, read and write numbers to 100 in numerals; - count in multiples of twos, fives and tens - given a number, identify one more and one less - identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least - read and write numbers from 1 to 20 in numerals and words.	- count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward - recognise the place value of each digit in a two-digit number (tens, ones) - identify, represent and estimate numbers using different representations, including the number line - compare and order numbers from 0 up to 100; use <, > and = signs - read and write numbers to at least 100 in numerals and in words - use place value and number facts to solve problems.	- count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number - recognise the place value of each digit in a three-digit number (hundreds, tens, ones) - compare and order numbers up to 1000 - identify, represent and estimate numbers using different representations - read and write numbers up to 1000 in numerals and in words - solve number problems and practical problems involving these ideas.	- count in multiples of 6, 7, 9, 25 and 1000 - find 1000 more or less than a given number - count backwards through zero to include negative numbers - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) - order and compare numbers beyond 1000 - identify, represent and estimate numbers using different representations - round any number to the nearest 10, 100 or 1000 - solve number and practical problems that involve all of the above and with increasingly large positive numbers - read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	- read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit - 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 zero - round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 - solve number problems and practical problems that involve all of the above - read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	- read, write, order and compare numbers up to 10 000 000 and determine the value of each digit - round any whole number to a required degree of accuracy - use negative numbers in context, and calculate intervals across zero - solve number problems and practical problems that involve all of the above.

Addition and Subtraction	Use quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer.	- read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs - represent and use number bonds and related subtraction facts within 20 - add and subtract one-digit and two-digit numbers to 20, including zero - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.	- solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot	- add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds - add and subtract numbers with up to three digits, using formal written methods of columnar 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.	- add and subtract numbers with 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 - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.	- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) - add and subtract numbers mentally with increasingly large numbers - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy - solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	- perform mental calculations, including with mixed operations and large numbers - identify common factors, common multiples and prime numbers - use their knowledge of the order of operations to carry out calculations involving the four operations - solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why - 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.
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			recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.				
Multiplication and Division	solve problems, including doubling, halving and sharing.	solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.	- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals ($=$) signs - show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot - solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,	- recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables - 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.	- recall multiplication and division facts for multiplication tables up to 12×12 - 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 - 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, integer scaling problems and harder correspondence problems such as n objects are	- 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 - 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 - divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders	- 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

			including problems in contexts.		connected to m objects.	appropriately for the context • multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 • recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) • 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	
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Fractions (Including decimals and percentages)		- recognise, find and name a half as one of two equal parts of an object, shape or quantity - recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	- recognise, find, name and write fractions $\frac{1}{2}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity - write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of two quarters and one half.	- 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 - 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 - add and subtract fractions with the same denominator within one whole [for example, $57 + \frac{1}{7} = 67$] - compare and order unit fractions, and fractions with the same denominator - solve problems that involve all of the above.	- recognise and show, using diagrams, families of common equivalent fractions - count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. - 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 - 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 - round decimals with one decimal place to	- compare and order fractions whose denominators are all multiples of the same number - identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths - 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, $2\frac{5}{5} + \frac{4}{5} = 6\frac{5}{5} = 1\frac{1}{5}$] - add and subtract fractions with the same denominator and denominators that are multiples of the same number - multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams - read and write decimal numbers as fractions [for example, 0.71 = $\frac{71}{100}$] - recognise and use thousandths and relate them to tenths,	- use common factors to simplify fractions; use common multiples to express fractions in the same denomination - compare and order fractions, including fractions >1 - add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions - 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, $\frac{1}{3} \div 2 = \frac{1}{6}$] - associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] - identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
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					the nearest whole number - compare numbers with the same number of decimal places up to two decimal places - solve simple measure and money problems involving fractions and decimals to two decimal places.	hundredths and decimal equivalents - round decimals with two decimal places to the nearest whole number and to one decimal place - read, write, order and compare numbers with up to three decimal places - solve problems involving number up to three decimal places - recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal - solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$ and those fractions with a denominator of a multiple of 10 or 25.	- multiply one-digit numbers with up to two decimal places by whole numbers - use written division methods in cases where the answer has up to two decimal places. - 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.
Measurement	use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.	compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to	- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) - measure the perimeter of simple 2-D shapes	- Convert between different units of measure [for example, kilometre to metre; hour to minute] - measure and calculate the perimeter of a rectilinear figure	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

	• recognise, create and describe patterns. • explore characteristics of everyday objects and shapes and use mathematical language to describe them.	• mass/weight [for example, heavy/light, heavier than, lighter than] • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] • time [for example, quicker, slower, earlier, later] measure and begin to record the following: • lengths and heights • mass/weight • capacity and volume • time (hours, minutes, seconds) • recognise and know the value of different denominations of coins and notes • sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] • recognise and use language relating to dates, including days of the week, weeks, months and years	the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels • compare and order lengths, mass, volume/capacity and record the results using >, < and = • recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value • find different combinations of coins that equal the same amounts of money • solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change • compare and sequence intervals of time • tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times • know the number of minutes in an hour	• add and subtract amounts of money to give change, using both £ and p in practical contexts • tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks • 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, a.m./p.m., morning, afternoon, noon and midnight • know the number of seconds in a minute and the number of days in each month, year and leap year • compare durations of events [for example to calculate the time taken by particular events or tasks].	(including squares) in centimetres and metres • find the area of rectilinear shapes by counting squares • estimate, compare and calculate different measures, including money in pounds and pence • read, write and convert time 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.	• understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints • measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres • calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (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] • solve problems involving converting between units of time • use all four operations to solve problems involving measure [for example, length, mass, volume, money] using	• 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 notation to up to three decimal places • convert between miles and kilometres • recognise that shapes with the same areas can have different perimeters and vice versa • recognise when it is possible to use the 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 and km³]
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		tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	and the number of hours in a day.			decimal notation, including scaling.	
Geometry – properties of shapes	•	recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].	- identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line - identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces - identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] - compare and sort common 2-D and 3-D shapes and everyday objects.	- draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them - recognise angles as a property of shape or a description of a turn - identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle - identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	- 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 - identify lines of symmetry in 2-D shapes presented in different orientations - complete a simple symmetric figure with respect to a specific line of symmetry.	- identify 3-D shapes, including cubes and other cuboids, from 2-D representations - 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 one whole turn (total 360°) - angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) - other multiples of 90° - use the properties of rectangles to deduce related facts and find missing lengths and angles - distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	- 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 circle, 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.

Geometry – position and direction	•	• describe position, direction and movement, including whole, half, quarter and three-quarter turns.	• order and arrange combinations of mathematical objects in patterns and sequences • use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).	•	• describe positions on a 2-D grid as coordinates in the first quadrant • 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.	• 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.	• describe positions on the full coordinate grid (all four quadrants) • draw and translate simple shapes on the coordinate plane and reflect them in the axes.
Statistics	•	•	• interpret and construct simple pictograms, tally charts, block diagrams and simple tables • ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity • ask and answer questions about totalling and comparing categorical data.	• interpret and present data using bar charts, pictograms and tables • 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.	• 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.	• solve comparison, sum and difference problems using information presented in a line graph • complete, read and interpret information in tables, including timetables.	• interpret and construct pie charts and line graphs and use these to solve problems • calculate and interpret the mean as an average

Ratio and Proportion	•	•	•	•	•	•	• solve problems involving the relative sizes of two 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 use 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
Algebra	•	•	•	•	•	•	• use simple formulae • generate and describe linear number sequences • express missing number problems algebraically • find pairs of numbers that satisfy number sentences involving two unknowns • enumerate possibilities of

							combinations of two variables
SMSC (Spiritual, Moral, Social, and Cultural)	• Social: Through collaborative problem-solving and the foundational "sharing" concepts in EYFS, pupils learn the social value of cooperation and the mathematical basis of division. (EYFS – Year 6)	•	• Spiritual: By identifying 2-D shapes on the surface of 3-D shapes (Year 2) and exploring symmetry, pupils develop a sense of wonder at the hidden mathematical structures and patterns that underpin the natural world. (Year 2 – Year 6)	•	• Cultural: Pupils explore the history of mathematics, from the evolution of Roman Numerals (I to M) to the transformative introduction of zero, recognising mathematics as a global, historical language. (Year 4 – Year 6)	•	• Moral: Units on "Money" and "Statistics" promote financial responsibility and data integrity. Crucially, the Year 6 objective of "interpreting remainders... as appropriate for the context" encourages pupils to consider the ethical implications of resource distribution.

Maths Curriculum		Newstead Primary School		IMPLEMENTATION
	EYFS	KS1	KS2	
Pedagogical approach and strategies	White Rose Maths Hub Number blocks Exposure to number and calculation Counting Number rhymes	White Rose Maths Hub including online resources and planning, using Mastery approach – teaching to the top – Spotlight intervention to support Multiple strategies Times tables strategies Rising Stars Mental arithmetic Bar modelling strategies Encouragement to develop fluency, reasoning and problem-solving strategies Concrete, Pictorial, Abstract being used Collect, discuss and expand mathematical vocabulary Maths integrated within the curriculum Number rhymes	White Rose Maths Hub including online resources and planning, using Mastery approach – teaching to the top – Spotlight intervention to support Multiple strategies Times tables strategies Rising Stars Mental arithmetic Bar modelling strategies Encouragement to develop fluency, reasoning and problem-solving strategies Concrete, Pictorial, Abstract being used Collect, discuss and expand mathematical vocabulary Maths integrated within the curriculum Number rhymes	
Timetabling	FS1 Carpet time activities FS2 Maths activities = 3 hours per week	Maths 11.15 – 12.15 Group and 1:1 maths interventions timetabled throughout the week	Maths 9.20 -10.20 (Pine) 9.30 – 10.40 (Maple & Oak) Group and 1:1 maths interventions timetabled throughout the week	
Maths across the curriculum	Topic-led and child-led	Curriculum includes topics that have mathematical data Understanding, using and recording data tables and charts	Curriculum includes topics that have mathematical data Understanding, using and recording data tables and charts	

Mental Maths	Counting Number recognition Ordering numbers Sequencing	Multiples/Times Tables Challenges Arithmetic questions Ordering/Sequencing numbers Weekly Rising Stars Arithmetic Tests 5 in 5 10 in 10	Multiples/Times Tables Challenges Arithmetic questions Ordering/Sequencing numbers Weekly Rising Stars Arithmetic Tests 5 in 5 10 in 10
Language used for maths talk	Tell me how you know... What comes next? How did you do it?	How did you work it out? What method did you use? Show me using concrete, pictorial, abstract methods Prove it Can you solve it a different way?	How did you work it out? What method did you use? Show me using concrete, pictorial, abstract methods Prove it Can you solve it a different way?
Expectations for recording children's work	Maths recorded in maths floor book Practical maths work photographed and annotated where necessary	Maths recorded in large-squared maths book Practical maths work photographed and annotated where necessary Mental Maths book	Maths recorded in small-squared maths book Practical maths work photographed and annotated where necessary Mental Maths book
Environment	Practical maths activities as part of continuous provision Maths display to support learning	Maths display to support learning Maths manipulatives readily available to pupils (including Numicon) Maths working wall to support recent work Maths vocabulary including synonyms displayed and regularly used and revised	Maths display to support learning Maths manipulative readily available to pupils (including Numicon) Maths working wall to support recent work Maths vocabulary including synonyms displayed and regularly used and revised

Interventions inc SEND provision	Group and 1:1 intervention groups	Group and 1:1 intervention groups linked to Pupil Progress 'Spotlight' intervention using targeted questioning from Rising Stars analysis Targeted work Maths manipulatives eg Numicon and scaffolding maths frames eg number-lines, place value grids Feedback at the point of teaching	Group and 1:1 intervention groups linked to Pupil Progress 'Spotlight' intervention using targeted questioning from Rising Stars analysis Targeted work Maths manipulatives eg Numicon and scaffolding maths frames eg number-lines, place value grids Numicon intervention groups Third Space Learning for targeted pupils in Year 6 Power of Two Feedback at the point of teaching
Maths community in and out of school	New parent meetings Parent workshops	Parent workshops	Parent workshops Year 6 SATs meeting
Resources	Maths workbook Numicon White Rose Maths Hub Number blocks	Maths workbook Mental exercise workbook Working Wall White Rose Maths Hub (Online) Maths - No Problem! Textbooks Focus Maths Power Maths textbooks Rising Stars Arithmetic Tests Times Table Rockstars (Online) Numicon Multiple check Times tables check Boost Insights NTS assessments	Maths workbook Maths exercise book Working Wall White Rose Maths Hub (Online) Maths - No Problem! Textbooks Focus Maths Power Maths textbooks Rising Stars Arithmetic Tests Times Table Rockstars (Online) Numicon Multiple check Times tables check MTC Practise – gov.uk (Online) Boost Insights NTS assessments

A Daily Maths Lesson at Newstead Primary School might look like

Rapid/Mental Maths Warm up 5 in 5	Anchor Task Main Session	Guided Practice	Independent Practice Task 3 to Try	Depth Task	Arithmetic Focus 10 in 10
	• All pupils are capable of succeeding • Everyone moves at a similar pace • If children don't understand, the concept is repeated, either in the same or an alternative way. • Pre and post teaching sessions/tests will be used to secure understanding. • Children will take appropriate steps through an area of study, to be determined by the teaching staff. This may include some or all of the workbook activities and may include additional activities to support learning of all children. • Extra reasoning activities, in smaller groups, will allow children to articulate the mathematical thinking and develop mathematical oracy. • All pupils will need to have procedural fluency; with this in mind, arithmetic units must be embedded. Regular assessment using Rising Stars Arithmetic tests activities will allow teachers to keep track with this and revisit mis-conceptions. • Teachers will follow White Rose Maths Hub (WRMH) planning structure and assessment materials, supported by other Maths schemes and resources to suit the needs of pupils. • Depth Challenges will be used where appropriate. • A variety of maths textbooks will be used to support steps in maths topics including: Maths – No Problem!, White Rose Maths Hub, Target Maths and Power Maths. • Teachers review progress of maths using WRMH topic pre-testing and post-testing. • Boost Insights – NTS Maths termly Assessments provide summative progress throughout the year. • The collaboration will meet on a half-termly basis to discuss maths at the Maths Network.				

Mathematics		Newstead Primary School		IMPACT
	EYFS	KS1	KS2	
Assessment	EYFS Profile assessment Observation Learning journey photographs Sarah Quinn Assessments	Multiples/Times Tables Challenge Termly White Rose Maths Hub (WRMH) Test Boost Insights NTS assessments Rising Stars Arithmetic Tests	Multiples/Times Tables Challenge White Rose Maths Hub (WRMH) Test Times Table Test (Y4 MTC) Y6 SATs Boost Insights NTS assessments Rising Stars Arithmetic Tests	
Monitoring	Learning walks Observations Termly summative assessments Termly pupil progress meeting Internal Moderation External Moderation	Learning walks Observations Pupil Voice Book scrutiny WRMH pre and post assessments Termly pupil progress meeting Internal Moderation External Moderation	Learning walks Observations Pupil Voice Book scrutiny WRMH pre and post assessments Termly pupil progress meeting Internal Moderation External Moderation	
	The impact of the mathematics curriculum at Newstead Primary can be seen through: • Our children's enjoyment of mathematics • Our children developing a range of efficient and accurate skills that can be used to calculate efficiently and effectively • Our children understand mathematics rather than 'just do', helping them identify when answers do not make mathematical sense • Our children can apply calculation skills and understanding of other mathematical areas to become confident and resilient problem solvers, who can reason and articulate, using their oracy skills, ideas mathematically • Our children will have a wide range of mathematical vocabulary which they use to justify, reason and explain their answers and responses • Our children will become resilient mathematicians who not only challenge themselves but also support each other and will understand how their maths learning is linked to real-life and their future. • When children leave Newstead Primary School at the end of KS2, they will be prepared for secondary school and will be able to continue their use of maths in everyday life. They will leave our school with a reflective, resilient and responsible attitude, all core values in leading a fulfilling lifestyle. • The work evidenced in the children's books and on display across the school • The percentage of children working at Expected level or greater across the school as shown on Target Tracker • The percentage of children who attain the Expected standard in the Year 4 Multiplication Check • The percentage of children working at Expected level or greater at the end of Year 6, when compared to local and national outcomes			