Maths Yearly Overview   Year: 5

Burnley Brow Community School

	Autumn 1 1.1 (7 weeks)	Autumn 2 1.2 (7.5 weeks)	Spring 1 2.1 (5 weeks)	Spring 2 2.2 (6 weeks)	Summer 1 3.1 (6 weeks)	Summer 2 3.2 (6.5 weeks)
Week 1	**Number – Place Value** <u>NC Objectives:</u> Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 **Maths meeting:** Counting – Multiples of 1, 10, 100 Calculation – times tables Order numbers to 1000	**Number – Multiplication & Division** <u>NC Objectives:</u> Multiply and divide wholes numbers by 10, 100 and 1000s **Maths meeting:** Counting – Multiples of 6 Calculation – times tables Prime numbers	**Number – Fractions** <u>NC Objectives:</u> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams **Maths meeting:** Counting - Counting in multiples of 1, 10, 100 and 1000 from any number through zero to negative numbers Calculation – Multiply and divide whole numbers Equivalent fractions	**Number – Decimals & Percentages** <u>NC Objectives</u>: 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. **Maths meeting:** Counting – in 10s and 100s from any number Calculation – Division Decimal and fraction equivalents	**Geometry: Properties of Shape** <u>NC Objectives:</u> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees. **Maths meeting:** Counting – in fractions Calculation – times tables 2D shape	**Number – Decimals** <u>NC Objectives</u>: Solve problems involving number up to 3 decimal places **Maths meeting:** Counting – relating to volume and measurement Calculation – times tables Money reasoning
Week 2	**Number – Place Value** <u>NC Objectives:</u> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	**Number – Fractions** <u>NC Objectives:</u> Identify, name and write equivalent fractions **Maths meeting:** Counting – Multiples of 7 Calculation – times tables Factors and multiples	**Number – Fractions** <u>NC Objectives:</u> Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	**Number – Decimals & Percentages Money** <u>NC Objectives:</u> Estimate compare and calculate, different measures including pounds and pence	**Geometry: Properties of Shape** <u>NC Objectives:</u> Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½	**Number – Decimals** <u>NC Objectives</u>: Solve problems involving number up to 3 decimal places

	Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 **Maths meeting:** Counting – Multiples of 1, 10, 100 Calculation – Addition and subtraction up to 4 dig 1000 more/less		**Maths meeting:** Counting - backwards through zero to negative numbers Calculation – times tables Equivalent fractions	Solve simple measure and money problems involving fractions and decimals to two decimal places. (adding and subtracting decimals) **Maths meeting:** Counting – in 1s, 2s, 5s, 10s Calculation – Addition and subtraction decimals Money (value and change)	a turn (total 180°) other multiples of 90° Use the properties of rectangles to deduce related facts and find missing lengths and angles. **Maths meeting:** Counting – in fractions Calculation – times tables 3D shape	**Maths meeting:** Counting – relating to volume and measurement Calculation – times tables Money problems
Week 3	**Number – Place Value** **<u>NC Objectives:</u>** Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 (using rounding to estimate 2/3dig) Solve number problems and practical problems that involve all of the above **Maths meeting:** Counting – Multiples of 1, 10, 100 from any number Calculation – Addition and subtraction up to 4 dig	**Number – Fractions** <u>NC Objectives</u>: Recognise mixed numbers and improper fractions and convert between them and write greater than and less than. **Maths meeting:** Counting – Multiples of 8 Calculation – times tables Factors and multiples	**Number – Decimals & Percentages** <u>NC Objectives:</u> Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Read and write decimal numbers as fractions [for example 0.71 = 71 100] **Maths meeting:** Counting –count in decimals Calculation – Add fractions Mixed to improper	**Measurement – Area & Perimeter** <u>NC Objectives:</u> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres **Maths meeting:** Counting – in decimals (and equivalents) Calculation – Multiplication and division factors and multiples	**Geometry: Properties of Shape** <u>NC Objectives:</u> Use the properties of rectangles to deduce related facts and find missing lengths and angles. 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.	**Number – Negative Numbers** <u>NC Objectives:</u> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0 **Maths meeting:** Counting – count back through zero Calculation – times tables Roman Numerals

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Week 4	**Number – Addition and Subtraction** NC Objectives: Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Maths meeting: Counting – Multiples of 1000 from any number Calculation – 10, 100, 1000 more or less	**Number – Fractions** NC Objectives: Compare and order fractions whose denominators are all multiples of the same number Maths meeting: Counting – Multiples of 9 Calculation – Division Common multiples	**Number – Decimals & Percentages** NC Objectives: Read, write, order and compare numbers with up to 3 decimal places Maths meeting: Counting - backwards through zero to negative numbers Calculation – Subtract fractions Place value PUMA test.	**Measurement – Area & Perimeter** NC Objectives: Calculate and compare the area of rectangles (including squares) including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes Maths meeting: Counting – 1s, 10s, 100s and 1000s from any number Calculation – times tables Problem solving Multiplication and division	**Geometry: Position & Direction** NC Objectives: 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 Maths meeting: Counting – in fractions Calculation – times tables Triangles	**Measurement: Converting Units** NC Objectives: Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; l and ml] Maths meeting: Counting – relating to volume and measurement Calculation – times tables Negative numbers PUMA test.
Week 5	**Number – Addition and Subtraction** NC Objectives:	**Number – Fractions** NC Objectives:	**Number – Decimals & Percentages**	**Statistics** NC Objectives:	**Geometry: Position & Direction**	**Measurement: Converting Units**

	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 **Maths meeting:** Counting: Multiples of 25 Calculation – 10, 100, 1000 more or less Rounding	Add and subtract fractions with the same denominator and denominators that are multiples of the same number **Maths meeting:** Counting – Multiples of 6,7, 8 & 9 Counting – Multiples of 9 Calculation – times tables Common multiples	**NC Objectives:** Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place **Maths meeting:** Counting - backwards through zero to negative numbers Calculation – +/- decimals Rounding	Complete, read and interpret information in tables, including timetables. **Maths meeting:** Counting – in 2s, 5s and 10s Calculation – times tables Days in a week, month, year etc	**NC Objectives:** 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. **Maths meeting:** Counting – in fractions Calculation – times tables Symmetry	**NC Objectives:** Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Solve problems involving converting between units of time **Maths meeting:** Counting – relating to volume and measurement Calculation – times tables Negative numbers
Week 6	Number – Multiplication & Division **NC Objectives:** Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}) Identify multiples and factors, including finding all factor pairs of a number **Maths meeting:**	Number – Multiplication & Division **NC Objectives:** Multiply numbers up to 4 digits by 1 or 2 digit numbers Multiply and divide numbers mentally **Maths meeting:** Counting – Multiples of 6,7, 8 & 9 Calculation – times tables Square and cube numbers		Statistics **NC Objectives:** Solve comparison, sum and difference problems using information presented in a line graph **Maths meeting:** Counting – in decimals (and equivalents) Calculation – times tables Days in a week, month, year etc	Number – Decimals **NC Objectives:** Solve problems involving number up to 3 decimal places **Maths meeting:** Counting – in fractions Calculation – Money problems	Measurement: Volume **NC Objectives:** Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water] Use all four operations to solve problems involving

	Multiples of 50 Calculation – Times tables Roman numerals	PUMA test.				measure [for example, length, mass, volume, money] using decimal notation, including scaling. Maths meeting: Counting – relating to volume and measurement Calculation – times tables Negative numbers
Week 7	Number – Multiplication & Division NC Objectives: 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 Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes Maths meeting: Counting in multiples of 25, 50, 100 and 1000 Calculation – Times tables Roman numerals	Number – Multiplication & Division NC Objectives: 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 numbers mentally Maths meeting: Counting – Multiples of 6,7, 8 & 9 Calculation – times tables Square and cube numbers				Consolidation and gaps

Week 8		Number – Multiplication & Division NC Objectives: 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 Maths meeting: Counting – Multiples of 6,7, 8 & 9 Calculation – times tables Square and cube numbers				