The Eliot Bank and Gordonbrock Schools Federation

MATHEMATICS - YEAR 5 CURRICULUM OVERVIEW
Mathematics Curriculum Map

| Year 5 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Autumn | Number Place value |  |  | Number Addition and subtraction |  | Number <br> Multiplication and division |  |  | Statistics |  | Measurement Perimeter | Assess, review and consolidate |
| Spring | Number <br> Multiplication and division |  |  | Number Fractions |  |  |  | Number <br> Decimals and percentages |  |  | Measurement Area | Assess, review and consolidate |
| Summer |  | ber ions | Number Decimals |  | Geometry <br> Properties of shape |  | Geometry Position and direction |  | Measurement Converting units |  | Measurement Volume | Assess, review and consolidate |

## Year-group objectives and Vocabulary

| Year 6 | Strand | Objectives | Vocabulary |
| :---: | :---: | :---: | :---: |
|  | Number Place value | - Read, write, order and compare numbers to at least 1000000 and determine the value of each digit <br> - Count forwards or backwards in steps of powers of 10 for any given number up to 1 000000 <br> - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero <br> - Round any number up to 1000000 to the nearest $10,100,1000,10000$ and 100 000 <br> - Solve number problems and practical problems that involve all of the above <br> - Read Roman numerals to 1000 (M) and recognise years written in Roman numerals | Powers of 10, numbers to 1,000,000 order of magnitude |
|  | Number Addition, subtraction, multiplication and division | - Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <br> - Add and subtract numbers mentally with increasingly large numbers <br> - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <br> - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <br> - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers <br> - Know and use the vocabulary of prime numbers, prime factors and composite (non prime) numbers <br> - Establish whether a number up to 100 is prime and recall prime numbers up to 19 <br> - 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 <br> - Multiply and divide numbers mentally drawing upon known facts <br> - 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 | Efficient written method <br> Factor pairs, common factors , common multiples, composite numbers, prime number, prime factors, prime factor decomposition, square number, cubed number, formal written method, long multiplication/long division,quotient remainder,reciprocal, multiplicative reasoning |



|  | standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes <br> - Estimate volume [for example, using 1 cm 3 blocks to build cuboids (including cubes)] and capacity [for example, using water] <br> - Solve problems involving converting between units of time <br> - Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling |  |
| :---: | :---: | :---: |
| Geometry Properties of shape | - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations <br> - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> - Draw given angles, and measure them in degrees $\left({ }^{\circ}\right)$ <br> - Identify: angles at a point and one whole turn (total $360^{\circ}$ ); angles at a point on a straight line and $1 / 2$ a turn (total $180^{\circ}$ ); other multiples of $90^{\circ}$ <br> - Use the properties of rectangles to deduce related facts and find missing lengths and angles <br> - Distinguish between regular and irregular polygons based on reasoning about equal sides and angles | Regular and irregular polygons tetrahedron, polyhedron, octahedron icosahedron, dodecahedron |
| Geometry Position and direction | - 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 | Reflex angle, dimensions |
| Statistics | - Solve comparison, sum and difference problems using information presented in a line graph <br> - Complete, read and interpret information in tables, including timetables |  |

