YEAR 2022－23 Year 5 Objective Map－New Curriculum

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| Numbers and the Number System |  |  |  |  |  |  |  |  |
| read，write，order and compare numbers to at least 1000000 and determine the value of each digit |  |  |  |  |  |  |  |  |
| count forwards or backwards in steps of powers of 10 for any given number up to 1000000 |  |  |  |  |  |  |  |  |
| interpret negative numbers in context，count forwards and backwards with positive and negative whole numbers， including through zero |  |  |  |  |  |  |  |  |
| round any number up to 1000000 to the nearest 10 ， $100,1000,10000$ and 100000 |  |  |  |  |  |  |  |  |
| 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． |  |  |  |  |  |  |  |  |
| Fractions and Decimals and Percentages |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |
| 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 |  |  |  |  |  |  |  |  |
| recognise and use thousandths and relate them to tenths，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 and those fractions with a denominator of a multiple of 10 or 25 |  |  |  |  |  |  |  |  |
| Addition and Subtraction |  |  |  |  |  |  |  |  |
| 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． |  |  |  |  |  |  |  |  |


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| Multiplication and Division |  |  |  |  |  |  |  |  |
| identify multiples and factors, including finding all factor pairs of a number, and common factors of two 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 appropriately for the context |  |  |  |  |  |  |  |  |
| multiply and divide whole numbers and those involving decimals by 10,100 and 1000 |  |  |  |  |  |  |  |  |
| 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 ratio |  |  |  |  |  |  |  |  |
| Geometry |  |  |  |  |  |  |  |  |
| 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 a turn (total 180) |  |  |  |  |  |  |  |  |
| other multiples of 900 |  |  |  |  |  |  |  |  |
| 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. |  |  |  |  |  |  |  |  |
| 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. |  |  |  |  |  |  |  |  |
| Measurement |  |  |  |  |  |  |  |  |
| convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) |  |  |  |  |  |  |  |  |
| 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 <br> cuboids (including cubes)] and capacity [for example, <br> using water] |  |  |  |  |  |  |  |  |
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| solve problems involving converting between units of time |  |  |  |  |  |  |  |  |
| use all four operations to solve problems involving <br> measure [for example, length, mass, volume, money] using <br> decimal notation, including scaling. |  |  |  |  |  |  |  |  |
| Statistics |  |  |  |  |  |  |  |  |
| solve comparison, sum and difference problems using <br> information presented in a line graph |  |  |  |  |  |  |  |  |
| complete, read and interpret information in tables, <br> including timetables. |  |  |  |  |  |  |  |  |

Taught but not secure. Will need to revisit.
Taught and mostly secure. Some reinforcement needed.
Taught and secure. Need to be further challenged.

