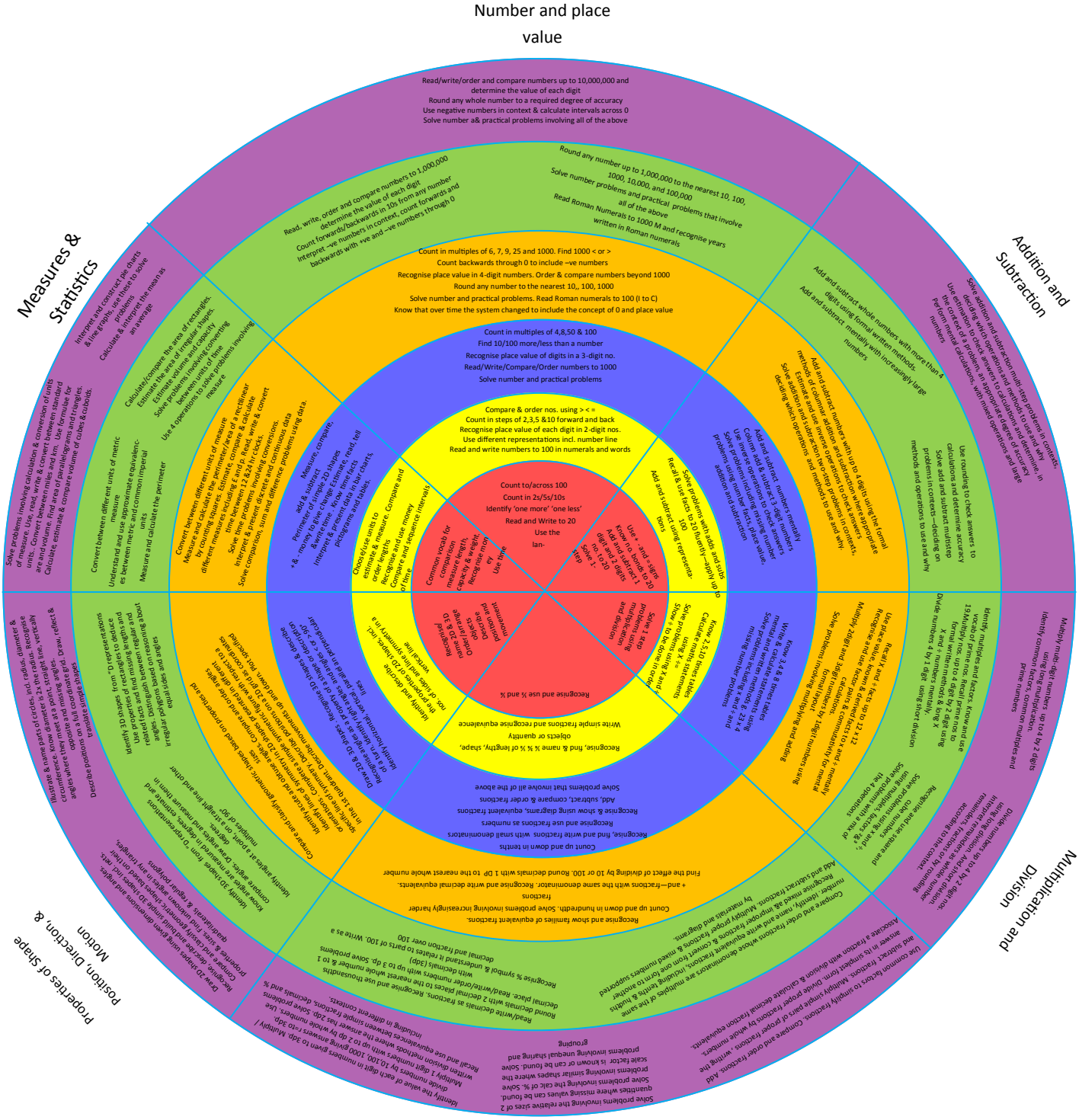
Number and place value
Count to/across 100
Count in 2s/5s/10s
Identify 'one more' 'one less'
Read and Write to 20
Use the lan-
Use + and - to 20 step
Know no. bonds to 20
Add and subtract 1 digit and digits no. to 20
Solve 1 step problems using multiplication and division
Recall & use facts to 20 fluently—100
Add and subtract using representations
Solve problems with addition and subtraction
Compare & order nos. using > < =
Count in steps of 2,3,5 &10 forward and back
Recognise place value of each digit in 2-digit nos.
Use different representations incl. number line
Read and write numbers to 100 in numerals and words
Count in multiples of 4,8,50 & 100
Find 10/100 more/less than a number
Recognise place value of digits in a 3-digit no.
Read/Write/Compare/Order numbers to 1000
Solve number and practical problems
Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 < or >
Count backwards through 0 to include –ve numbers
Recognise place value in 4-digit numbers. Order & compare numbers beyond 1000
Round any number to the nearest 10,, 100, 1000
Solve number and practical problems. Read Roman numerals to 100 (I to C)
Know that over time the system changed to include the concept of 0 and place value
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 & calculate intervals across 0
Solve number a& practical problems involving all of the above
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 to 1,000,000 and determine the value of each digit
Count forwards/backwards in 10s from any number
Interpret –ve numbers in context, count forwards and backwards with +ve and –ve numbers through 0
Addition and Subtraction
Add and subtract whole numbers with more than 4 digits using formal written methods
Add and subtract mentally with increasingly large numbers
Add and subtract numbers with up to 4 digits using the formal methods of columnar addition and subtraction where appropriate
Estimate and use inverse operations to check answers.
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Add and subtract numbers mentally
Column add & subtract 2-digit numbers
Use inverse operations to check answers
Solve problems including missing number
Solve problems using number facts, place value, addition and subtraction
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
Perform mental calculations, with mixed operations and large numbers
Use rounding to check answers to calculations and determine accuracy
Solve add and subtract multistep problems in contexts—deciding on methods and operations to use and why
Multiplication and Division
Identify multiples and factors. Know and use vocab of prime numbers, prime factors and composite (non-prime) numbers
Establish whether a number up to 100 is prime and recall prime numbers to 19
Multiply nos. up to 4 digit by 2 digit using formal written methods & long x
Divide numbers up to 4 digit by 1 digit using short division & interpret remainders appropriately for the context
Multiply 2digit and 3digit numbers by 1digit numbers using formal written method of short multiplication
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
Use their knowledge of the order of operations to carry out calculations involving the four operations
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 similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping
Use common factors to simplify fractions; Multiply simple pairs of proper fractions, writing the answer in its simplest form. Divide proper fractions by whole numbers. Associate a fraction with division & calculate decimal fraction equivalents
Fractions and decimals
Recognise and show families of equivalent fractions.
Count up and down in hundredth. Solve problems involving increasingly harder fractions
Recognise, find and write fractions with small denominators
Recognise and use fractions as numbers
Recognise & show using diagrams, equivalent fractions
Add, subtract, compare & order fractions
Solve problems that involve all of the above
Recognise and use ½ and ¼
Recognise, find & name ½ ⅓ ¼ of length, shape, object or quantity
Write simple fractions and recognise equivalence
Count up and down in tenths
Recognise and write decimal equivalents.
+ and —fractions with the same denominator. Recognise and write decimal equivalents.
Find the effect of dividing by 10 or 100. Round decimals with 1 DP to the nearest whole number
Read/write decimals as fractions. Recognise and use thousandths and relate to tenths, hundredths and decimal equivalents
Round decimals with 2 decimal places to the nearest whole number & to 1 decimal place. Read/write/order numbers up to 3 dp. Solve problems with decimals (3dp)
Recognise % symbol & understand it relates to parts of 100. Solve problems involving %
Recognise and use ½ ¼ ⅓ ⅔ ¾ ⅕ ⅖ ⅗ ⅘ ⅙ ⅚ ⅛ ⅜ ⅝ ⅞ as decimals
Solve problems involving fractions, decimals and %
Position, Direction, & Motion
Describe positions on a 2D 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
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.
Identify, describe and represent position and direction using conventional terms
Order angles by turn and recognise right angles as a quarter turn, two right angles as a half turn, three right angles as three quarters of a turn and four right angles as a complete turn
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 lines of symmetry in 2D shapes presented in different orientations
Complete a simple symmetric figure with respect to a specific line of symmetry
Identify acute and obtuse angles and compare and order angles up to two right angles by size
Identify 3D shapes from 2D 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, angles at a point on a straight line and 1 whole turn (total 360°), angles at a point on a straight line and 1 whole 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
Compare and classify geometric shapes based on their properties and sizes
Identify 3D shapes from 2D 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, angles at a point on a straight line and 1 whole turn (total 360