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| **Spring 1** | **Year 5** | **Year 6** |
| **Length, perimeter, area and volume**  **(2.5 weeks)** | * measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres * 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 * 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 measure [for example, length, mass, volume, money] using decimal notation, including scaling | * recognise that shapes with the same areas can have different perimeters and vice versa * recognise when it is possible to use 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] |
| Small steps | Perimeter of rectangles  Perimeter of rectilinear shapes  Perimeter of polygons  Area of rectangles  Area of compound shapes  Estimate area | 1 Shapes – same area  Area and perimeter  Area of a triangle – counting squares  Area of a right-angled triangle  Area of any triangle  Area of a parallelogram  Volume – counting cubes  Volume of a cuboid |
| Vocabulary and resources | Perimeter, rectangle, length, 2d shape, width, rectilinear, straight asides, right angles, compound shape, polygon, regular, irregular, equal, area, cm, squared cm, estimate, approximate,  Ruler, | Perimeter, rectangle, length, 2d shape, width, rectilinear, straight asides, right angles, compound shape, polygon, regular, irregular, equal, area, cm, squared cm, estimate, approximate, cubed cm, formula, volume, triangle, perpendicular, parallelogram, cuboid,  Ruler, |
| **Fractions**  **(3 weeks)** | * 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, 2/5 + 4/5 = 6/5 = 1 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 | * 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, 1/4 × 1/2 = 1/8 ] * divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6 ] * solve problems which require answers to be rounded to specified degrees of accuracy |
| Small steps | Find fractions equivalent to a unit fraction  Find fractions equivalent to a non-unit fraction  Recognise equivalent fractions  Convert improper fractions to mixed numbers  Convert mixed numbers to improper fractions  Compare fractions less than 1  Order fractions less than 1  Compare and order fractions greater than 1  Add and subtract fractions with the same denominator  Add fractions within 1  Add fractions with total greater than 1  Add to a mixed number  Add two mixed numbers  Subtract fractions  Subtract from a mixed number  Subtract from a mixed number – breaking the whole  Subtract two mixed numbers | Equivalent fractions and simplifying  Equivalent fractions on a number line  Compare and order (denominator)  Compare and order (numerator)  Add and subtract simple fractions  Add and subtract any two fractions  Add mixed numbers  Subtract mixed numbers  Multi-step problems  Multiply fractions by integers  Multiply fractions by fractions  Divide a fraction by an integer  Divide any fraction by an integer  Mixed questions with fractions  Fraction of an amount  Fraction of an amount – find the whole |
| Vocabulary and resources | Equivalent, numerator, denominator, unit fraction, multiplied, divided, non-unit, whole, mixed number, improper fraction, compare, order, add, subtract, common denominator, partition, fractional part,  Shapes, number lines, fraction walls, multilink, | Equivalent, numerator, denominator, unit fraction, multiplied, divided, non-unit, whole, mixed number, improper fraction, compare, order, add, subtract, common denominator, partition, fractional part, integer, simplify  Shapes, number lines, fraction walls, multilink, |