|  |  |
| --- | --- |
| **Term and Approximate Week** | **Year 4 Unit and National Curriculum Objectives** |
| **Autumn 1** |  |
| **Week 1,2,3 and 4** | **Place Value**   * find 1000 more or less than a given number * recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) * count backwards through zero to include negative numbers * order and compare numbers beyond 1000 * solve number and practical problems that involve all of the above and with increasingly large positive numbers * identify, represent and estimate numbers using different representations * round any number to the nearest 10, 100 or 1000 * read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value * count in multiples of 6, 7, 9, 25 and 1000 |
| **Week 5,6 and 7** | **Addition and Subtraction**   * add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate * estimate and use inverse operations to check answers to a calculation * solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why |
| **Autumn 2** |  |
| **Week 1** | **Measurement Area**   * find the area of rectilinear shapes by counting squares |
| **Week 2,3 and 4** | * recall multiplication and division facts for multiplication tables up to 12 × 12   • solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects  • recognise and use factor pairs and commutativity in mental calculations   * use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers   • multiply two-digit and three-digit numbers by a one-digit number using formal written layout |
| **Week 5** | **Consolidation** |
| **Week 6 and 7** | **Multiplication and Division**   * recall multiplication and division facts for multiplication tables up to 12 × 12   • solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects  • recognise and use factor pairs and commutativity in mental calculations  • use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers  • multiply two-digit and three-digit numbers by a one-digit number using formal written layout |
| **Spring 1** |  |
| **Week 1** | **Multiplication and Division**   * recall multiplication and division facts for multiplication tables up to 12 × 12   • solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects  • recognise and use factor pairs and commutativity in mental calculations  • use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers  • multiply two-digit and three-digit numbers by a one-digit number using formal written layout |
| **Week 2 and 3** | **Measurement Length and Perimeter**   * measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres |
| **Week 4,5 and 6** | **Fractions**   * add and subtract fractions with the same denominator * recognise and show, using diagrams, families of common equivalent fractions * count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten * solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number |
| **Spring 2** |  |
| **Week 1** | **Fractions**   * add and subtract fractions with the same denominator * recognise and show, using diagrams, families of common equivalent fractions * count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten * solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number |
| **Week 2,3,4, 5 and 6** | **Decimals**   * find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths * recognise and write decimal equivalents of any number of tenths or hundredths * recognise and write decimal equivalents to ¼ , ½ , ¾ * round decimals with one decimal place to the nearest whole number * compare numbers with the same number of decimal places up to two decimal places |
| **Summer 1** |  |
| **Week 1 and 2** | **Measurement Money**   * solve simple measure and money problems involving fractions and decimals to two decimal places * estimate, compare and calculate different measures, including money in pounds and pence |
| **Week 3 and 4** | **Measurement Time**   * convert between different units of measure [e.g. hour to minute] * solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days * read, write and convert time between analogue and digital 12- and 24-hour clocks |
| **Week 5** | **Consolidation** |
| **Week 6** | **Shape**   * compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes * identify acute and obtuse angles and compare and order angles up to two right angles by size * identify lines of symmetry in 2-D shapes presented in different orientations * complete a simple symmetric figure with respect to a specific line of symmetry |
| **Summer 2** |  |
| **Week 1** | **Shape**   * compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes * identify acute and obtuse angles and compare and order angles up to two right angles by size * identify lines of symmetry in 2-D shapes presented in different orientations * complete a simple symmetric figure with respect to a specific line of symmetry |
| **Week 2** | **Statistics**   * solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs * interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs |
| **Week 3 and 4** | **Position and Direction**   * describe positions on a 2-D 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 |
| **Week 5,6 and 7** | **Consolidation** |