St. Bede's Catholic Primary School   Year 4 Maths Scheme of Learning

Autumn
Place Value:
- count in multiples of 6, 7, 9, 25 and 1000
- 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)
- 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.
Addition & Subtraction:
- add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Measurement:
- Convert between different units of measure [for example, kilometre to metre; hour to minute]
- measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Geometry:
- compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
- 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
Multiplication & Division:
- recall multiplication and division facts for multiplication tables up to 12 × 12
- use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1;
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Fractions:
- 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
Statistics:
- solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
Place Value:
- order and compare numbers beyond 1000
- identify, represent and estimate numbers using different representations

Spring
Place Value: - count backwards through zero to include negative numbers   - round any number to the nearest 10, 100 or 1000
Addition & 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
Measure: - Convert between different units of measure [for example, kilometre to metre; hour to minute]   - find the area of rectilinear shapes by counting squares
Geometry: - identify acute and obtuse angles and compare and order angles up to two right angles by size
Multiplication & Division: - recall multiplication and division facts for multiplication tables up to 12 × 12   - use place value, known and derived facts to multiply and divide mentally, including: multiplying together three numbers   - multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Fractions: - add and subtract fractions with the same denominator   - recognise and write decimal equivalents of any number of tenths or hundredths   - solve simple measure and money problems involving fractions and decimals to two decimal places
Statistics: - interpret and present discrete data using appropriate graphical methods, including bar charts and time graphs

Summer
Place Value: - solve number and practical problems that involve all of the above and with increasingly large positive numbers
Addition & Subtraction: - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate   - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

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Measure:
- read, write and convert time between analogue and digital 12- and 24-hour clocks
- solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
- estimate, compare and calculate different measures, including money in pounds and pence

Geometry:
- 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

Multiplication & Division:
- recognise and use factor pairs and commutativity in mental calculations
- 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

Fractions:
- compare numbers with the same number of decimal places up to two decimal places
- recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$
- round decimals with one decimal place to the nearest whole number
- 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

Statistics:
- interpret and present continuous data using appropriate graphical methods, including bar charts and time graphs