## St. Bede's Catholic Primary School

## Year 6 Maths Scheme of Learning



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- 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


## Statistics:

- Revision of tally charts, pictograms, bar charts, two way tables, venn diagrams and carroll diagrams.


## 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, and calculate intervals across 0
- solve number and practical problems that involve all of the above

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| Addition, Subtraction, Multiplication \& Division: |
| - divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number |
| remainders, fractions, or by rounding, as appropriate for the context |
| - use their knowledge of the order of operations to carry out calculations involving the 4 operations |
| - solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why |
| - solve problems involving addition, subtraction, multiplication and division |
| - use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy |
| Measure: |
| - calculate the area of parallelograms and triangles |
| - calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ${ }^{3}$ ) and cubic metres (m ${ }^{3}$ ), |
| and extending to other units [for example, mm ${ }^{3}$ and km ${ }^{3}$ ] |
| Geometry: |
| - illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |
| - recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |
| - describe positions on the full coordinate grid (all 4 quadrants) |
| draw and translate simple shapes on the coordinate plane, and reflect them in the axes |
| Ratio \& Proportion: |
| - 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 the calculation of percentages [for example, of measures and such as $15 \%$ of 360] and the use of percentages for comparison |

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- solve problems involving similar shapes where the scale factor is known or can be found
- solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Fractions:

- multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2}=\frac{1}{8}$ ]
- divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2=\frac{1}{6}$ ]
- multiply one-digit numbers with up to 2 decimal places by whole numbers
- use written division methods in cases where the answer has up to 2 decimal places
- solve problems which require answers to be rounded to specified degrees of accuracy
- recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Statistics:

- interpret and construct pie charts and line graphs and use these to solve problems
- calculate and interpret the mean as an average

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