

| Term   | Unit                                  | 2014 Programme of Study   |
|--|---------------------------------------|---|
| A<br>u<br>t<br>u<br>m<br>n<br><br>t<br>e<br>r<br>m | 1 Analysing and displaying data       | describe, interpret and compare observed distributions of a single variable through: appropriate measures of central tendency (mean, mode, median)<br>construct and interpret frequency tables<br>construct and interpret bar charts  |
|  | 2 Calculating                         | understand and use place value for integers<br>order positive and negative integers<br>use the symbols =, <, >, >, <, >, <<br>use the four operations, including formal written methods, with positive and negative integers<br>use integer powers and associated real roots (square, cube and higher)<br>use a calculator and other technologies to calculate results accurately and then interpret them appropriately   |
|  | Half term test                        |   |
|  | 3 Expressions, functions and formulae | use and interpret algebraic notation: $3y$ in place of $y + y + y$ and $3 \times y$<br>substitute numerical values into formulae and expressions, including scientific formulae<br>understand and use the concepts and vocabulary of expressions, equations, inequalities, terms and factors  |
| 4 Graphs   |                                       | work with coordinates in all four quadrants   |
| End of term test                                   |                                       |   |
| S<br>p<br>r<br>i                                   | 5 Factors and multiples               | use the concepts and vocabulary of prime numbers<br>use the concepts and vocabulary of factors (or divisors)<br>use the concepts and vocabulary of multiples<br>use the concepts and vocabulary of common factors<br>use the concepts and vocabulary of common multiples<br>use the concepts and vocabulary of highest common factor<br>use the concepts and vocabulary of lowest common multiple<br>use conventional notation for the priority of operations, including brackets, powers, roots and reciprocals<br>use approximation through rounding to estimate answers<br>use a calculator and other technologies to calculate results accurately and then interpret them appropriately |

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| n<br>g<br>t<br>e<br>r<br>m | 6 Decimals and measures               | <p>understand and use place value for decimals<br/> understand and use place value for measures<br/> order decimals and fractions<br/> use the four operations, including formal written methods, with positive and negative decimals<br/> round numbers and measures to an appropriate degree of accuracy [for example, to a number of decimal places or significant figures]<br/> use approximation through rounding to estimate answers</p> |
|                            | Half-term test                        |  |
|                            | 7 Angles and lines                    | <p>describe, sketch and draw using conventional terms and notations: points, lines, parallel lines, perpendicular lines, right angles, regular polygons, and other polygons that are reflectively and rotationally symmetric<br/> use the standard conventions for labelling the sides and angles of triangle ABC<br/> apply the properties of angles at a point<br/> apply the properties angles at a point on a straight line</p>            |
| End of term test           |                                       |  |
| S<br>u<br>m<br>m<br>e<br>r | 8 Measuring and shapes                | <p>calculate and solve problems involving composite shapes<br/> draw and measure line segments and angles in geometric figures<br/> derive and illustrate properties of triangles, quadrilaterals, circles, and other plane figures [for example, equal lengths and angles] using appropriate language and technologies</p>  |
|                            | 9 Fractions, decimals and percentages | <p>order decimals and fractions<br/> define percentage as 'number of parts per hundred'</p>  |
| t<br>e<br>r<br>m           | Half-term test                        |  |
|                            | 10 Transformations                    | <p>know and use the criteria for congruence of triangles<br/> identify properties of, and describe the results of: translations<br/> identify properties of, and describe the results of: rotations<br/> identify properties of, and describe the results of: reflections</p>  |
|                            | End of year test                      |  |