


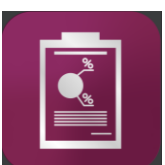

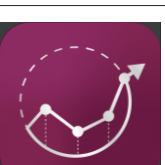


## What I will know and understand by the end of Year 7.

|   | Themes  | This year in Mathematics we will be learning:   | This links to:  | Key Vocabulary & Notation  |   |  |
|---|---|---|---|--|---|--|
| 1 |    | <b>The Language of the Universe</b> <ul style="list-style-type: none"> <li>Block 1 - Sequences</li> <li>Block 2 - Algebraic notation</li> <li>Block 3 - Equality &amp; equivalence</li> </ul>   | <ul style="list-style-type: none"> <li>Calculators are used throughout this unit, building in teaching efficient use of calculators and informal estimation.</li> <li>All material in this unit is revisited and extended throughout the rest of the year.</li> </ul> | <ul style="list-style-type: none"> <li>Position</li> <li>Term</li> <li>Linear</li> <li>Non-Linear</li> <li>Fibonacci</li> </ul>                    | <ul style="list-style-type: none"> <li>Function</li> <li>Inverse</li> <li>Expression</li> <li>Variable</li> <li>Coefficient</li> </ul>                        | <ul style="list-style-type: none"> <li>Equal =</li> <li>Equivalent <math>\equiv</math></li> <li>Like Terms</li> <li>Simplify</li> <li>Solve</li> </ul> |
| 2 |    | <b>A Numerate Citizen</b> <ul style="list-style-type: none"> <li>Block 4 - Place value and ordering Integers &amp; decimals</li> <li>Block 5 - Fraction, decimal &amp; percentage equivalence</li> </ul>                                    | <ul style="list-style-type: none"> <li>Solve equations with fractions, including fractional coefficients.</li> <li>Links sequences with fractions.</li> </ul>   | <ul style="list-style-type: none"> <li>Digit</li> <li>Integer</li> <li>Approximate</li> <li>Significant figure</li> <li>Range</li> </ul>           | <ul style="list-style-type: none"> <li>Equivalent <math>\equiv</math></li> <li>Numerator</li> <li>Denominator</li> <li>Quotient</li> <li>Pie chart</li> </ul> |  |
| 3 |    | <b>A Numerate Citizen</b> <ul style="list-style-type: none"> <li>Block 6 - Addition &amp; subtraction</li> <li>Block 7 - Multiplication &amp; division</li> <li>Block 8 - Fractions &amp; percentages of amounts</li> </ul>                 | <ul style="list-style-type: none"> <li>Perimeter problems that revisit equations and simplifying and revisit rounding, order of operations but with negatives.</li> <li>Choosing when to use mental, written or calculator methods.</li> </ul>                        | <ul style="list-style-type: none"> <li>Credit</li> <li>Debit</li> <li>Associative</li> <li>Inverse</li> <li>Commutative</li> </ul>                 | <ul style="list-style-type: none"> <li>Product</li> <li>Quotient</li> <li>Milli-</li> <li>Centi-</li> <li>Kilo-</li> </ul>                                    | <ul style="list-style-type: none"> <li>Numerator</li> <li>Denominator</li> <li>Equivalent</li> <li>Whole</li> <li>Convert</li> </ul>                   |
| 4 |    | <b>A Numerate Citizen</b> <ul style="list-style-type: none"> <li>Block 9 - Operations &amp; equations with directed numbers</li> <li>Block 10 - Addition &amp; subtraction of fractions</li> </ul>  | <ul style="list-style-type: none"> <li>Links with inequality number lines.</li> <li>Revisits sequences, substitution and equations.</li> </ul>  | <ul style="list-style-type: none"> <li>Ascending</li> <li>Descending</li> <li>Order of Operations</li> <li>Indices</li> <li>Square root</li> </ul> | <ul style="list-style-type: none"> <li>Multiple</li> <li>Lowest common multiple</li> <li>Mixed Number</li> <li>Improper fraction</li> </ul>                   |  |
| 5 |  | <b>The Construction of the World</b> <ul style="list-style-type: none"> <li>Block 11 - Constructing, measuring &amp; using geometric notation</li> <li>Block 12 - Developing geometric reasoning</li> </ul>                                 | <ul style="list-style-type: none"> <li>Revisits simplifying and perimeter.</li> <li>Form and solve equations in geometric settings.</li> <li>Revisits mental &amp; formal methods of addition &amp; subtraction with decimals.</li> </ul>                             | <ul style="list-style-type: none"> <li>Acute</li> <li>Obtuse</li> <li>Reflex</li> <li>Construct</li> <li>Perpendicular</li> </ul>                  | <ul style="list-style-type: none"> <li>Adjacent</li> <li>Vertically opposite</li> <li>Convex</li> <li>Concave</li> <li>Regular</li> </ul>                     |  |
| 6 |  | <b>The Language of the Universe &amp; An Informed Citizen</b> <ul style="list-style-type: none"> <li>Block 13 - Developing number sense</li> <li>Block 14 - Sets &amp; probability</li> <li>Block 15 - Prime numbers &amp; proof</li> </ul> | <ul style="list-style-type: none"> <li>Revisits FDP equivalence, and simple FDP addition and subtraction</li> <li>Revisits factors and multiples, both numerically and algebraically</li> </ul>   | <ul style="list-style-type: none"> <li>Factors</li> <li>Significant Figures</li> <li>Over/under estimate</li> </ul>                                | <ul style="list-style-type: none"> <li>Universal Set</li> <li>Venn diagram</li> <li>Intersection</li> <li>Union</li> <li>Complement</li> </ul>                | <ul style="list-style-type: none"> <li>Prime number</li> <li>Triangular numbers</li> <li>Highest common factor</li> </ul>                              |

Target Grade:

AP1:

AP2:

AP3: