|  | Exam Board <br> \& Specificatio <br> n | Autumn Term |  |  | Spring Term |  |  |  |  |  | Summer Term |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Year } 7 \\ \text { Key } \\ \text { stage } 3 \end{gathered}$ |  | Algebraic Manipulation 1 <br> Forming expressions; Substitution; Collecting Like terms; Linear sequences. | Place Value 1 <br> Calculations with powers of 10 <br> Standard form; Ordering, rounding and estimation. | 1Calculat  <br>  Calculatio <br> context;  <br> ; Decimal <br> arithmetic  <br> BIDMAS;  <br>  Calculator <br>  Equivalent <br> fractions,  <br>  decimals <br>  percentag | ns 1 <br> in <br> kills; |  | es 1 <br> es of ; <br> ts <br> uding <br> ines); | $$ | rtional <br> ning 1 <br> s and tation; g s in a etic with s. | Calc Dire num calc inclu fract deci cont |  | Properties of Number 1 <br> Exploring properties of factors, multiples and primes; Conjectures and counter examples | Shape 1 <br> Area of 2D <br> shapes; <br> Surface area of prisms; Converting units of length, area and volume. |
| $\begin{gathered} \text { Year } 8 \\ \text { Key } \\ \text { stage } 3 \end{gathered}$ |  | Algebraic Manipulatio n 2 <br> Index laws; <br> Expanding single brackets; Factorising with common factors. | Proportiona <br> 1 Reasoning 2 <br> Percentage of amounts including using multipliers; Percentage increase and decrease; Simple interest calculations. | Angles 2 <br> Angles on parallel lines; <br> Multi-step angle problems. |  | ortiona asoning 3 <br> rency ersions; verting its of asure; pound asures; lving blems olving cale. | $\begin{array}{r} \text { Gr } \\ \\ \mathrm{R} \\ \mathrm{~g} \\ \mathrm{Di} \\ \text { tim } \\ \text { Line } \\ \text { of a } \\ \text { fu } \end{array}$ | hs 1 <br> life <br> phs; <br> ance- <br> raphs; <br> graphs <br> ebraic <br> ions. | Equat an <br> Inequa <br> Formin <br> solving <br> equat <br> and <br> inequal <br> Repre <br> inequa <br> on a nu <br> line <br> graphi | ties <br> and <br> near <br> ns <br> ies; <br> nt <br> ies <br> ber <br> d <br> lly. | Shape 2 <br> Isometric drawing; Plans and elevations; Scale drawings and enlargement; Volume of prisms. | Circles 1 <br> Area and circumferenc e of circles, semi circles and quarter circles; Volume and surface area of cylinders. | Statistics 1 <br> Calculating and interpreting averages and measures of spread; Draw and interpret bar charts, pie charts and line graphs. |


| Year 9 Key Stage 3 |  | Probability 1 <br> Listing outcomes; Calculating probabilities including from tables and frequency trees; <br> Applications of venn diagrams to probability. | Algebraic Manipulation 3 <br> Expand, simplify and factorise linear and quadratic expressions; Simplify algebraic fractions <br> Form and solve equations in a variety of contexts; Rearrange formulae; Find and use position to term rules for linear and quadratic sequences. | Shape 3 <br> Derive and apply Pythagoras' theorem; | Proportional <br> Reasoning 4 <br> Calculate repeated percentage changes; Understand compound interest and depreciation; Solve percentage change calculations in reverse. | Calculations 3 <br> Index laws; Calculations with standard form; Surds. | Angles 3 <br> Use ruler, protractor and compasses to complete basic constructions; Solve loci problems. | Graphs 2 <br> Properties of parallel and perpendicular lines; Plotting quadratic and cubic graphs. | Shape 4 <br> Reflect shapes in a mirror line on a coordinate grid; <br> Rotate shapes around a given point; <br> Translate shapes using column vectors; Carry out basic vector calculations. Enlargement and similar shapes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |



