**The assessments will cover the following content headings:**

**1. Number 2. Algebra 3. Ratio, proportion and rates of change 4. Geometry and measures 5. Probability 6. Statistics**

**Higher**

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|  | **Year 7** | | | **Year 8** | | | **Year 9** | | | **Year 10** | | | **Year 11** | | |
|  | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 |
| **Number** | Structure and calculation.  Using + - x ÷ < > = ≤ ≥ ≠  Adding, subtracting, multiplication and division  Rounding |  |  | Fractions, decimals and Percentages (including recurring decimals).  Interpret standard form A x 10n, where 1 ≤ A < 10 and n is an integer  Index Laws |  |  | Calculate with roots, and with integer and fractional indices. |  |  | Measure and accuracy  Surds |  |  |  | Gap analysis revision and mock exams | Gap analysis revision.  **GCSE EXAMS** |
| **Algebra** |  | Notation, vocabulary and manipulation  Understanding linear sequences |  |  | Notation, vocabulary and manipulation involving quadratic expressions and equations.  Linear graphs in all four quadrants (y=mx+c) |  |  | Algebraic tinkering, involving inequalities and quadratics.  Graphs.  Quadratic and geometric sequences. |  |  | Graphs - Translations,  Functions with inputs and outputs  Sequences.  Proofs |  | Graphs – velocity time graphs, circles and non-linear. |
| **Ratio, proportion and rates of change** |  | Ratio, proportion and percentages. |  | Ratio proportion and percentage change. |  |  | Scale factor, rates of pay, change on graphs. |  |  | Graphs - Inverse and direct proportion  Growth and decay |  |  |  |
| **Geometry and measure** | Area and Perimeter of simple shapes |  | Properties and construction – angle facts angles in polygons |  | Pythagoras and Trigonometry.  Nets, surface area and volume. | Transformation of graphs | Mensuration and calculation. | Pythagoras and Trig. |  |  | Sine, cosine rules and area of any triangles.  Sector and arcs area and perimeter. |  | Vectors |
| **Probability** |  |  | Introduction to probability.  Outcomes, experimental and theoretical probability. |  |  | 0-1 probability scale, mutually exclusive events.  Introduction to tree diagrams. |  |  | Conditional probability, tree diagrams and two way tables. |  |  | Venn diagrams |  |
| **Statistics** |  |  | Discrete and continuous data. Using appropriate graphs to represent data. |  |  | Measure of central tendency.  Representing and interpreting data -  Scatter diagrams, box plots and cumulative frequencies |  |  | Measure of central tendency.  Box plots and cumulative frequencies |  |  | Histograms |  |

**Foundation**

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|  | **Year 7** | | | **Year 8** | | | **Year 9** | | | **Year 10** | | | **Year 11** | | |
|  | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 |
| **Number** | Structure and calculation.  Using + - x ÷ < > = ≤ ≥ ≠  Adding, subtracting, multiplication and division  Rounding | Fractions decimals and percentages |  | Structure and calculation.  Using + - x ÷ < > = ≤ ≥ ≠  Adding, subtracting, multiplication and division  Rounding |  |  | Calculate with and interpret standard form A × 10n, where 1 ≤ A < 10 and n is an integer |  |  | Measure and accuracy.  Interpreting limits of accuracy. |  |  |  | Gap analysis revision and mock exams | Gap analysis revision.  **GCSE EXAMS** |
| **Algebra** |  |  | Notation, Vocabulary and manipulation |  | Notation, Vocabulary and manipulation |  | Inequalities, equations and  number sequences. |  |  | Plotting and interpreting graphs |  |  |  |
| **Ratio, proportion and rates of change** |  | Ratio, proportion and percentages. |  |  | Ratio, proportion and rates of change |  |  | Ratio proportion and rates of change – graphing representation. |  |  | Ratio proportion and rates of change – including understanding of direct and inverse proportion. |  |  |
| **Geometry and measure** | Area and Perimeter of simple shapes |  | Properties and construction – angle facts angles in polygons |  |  | Properties and construction – (focus on construction) |  | Mensuration and calculation – Pythagoras and trigonometry |  |  | Mensuration and calculation – Trigonometry. |  | Vectors – 2D vectors, scalar, diagrammatic and column vectors |
| **Probability** |  |  |  |  |  | Introduction to probability.  Outcomes, experimental and theoretical probability |  |  | Probability 0-1 scale. Mutually exclusive probability. |  |  | Probability – venn diagrams and tree diagrams (independent and dependent events) |  |
| **Statistics** |  |  | Using appropriate measures of central tendency. |  |  | Discrete and continuous data. Using appropriate graphs to represent data.  Reading and interpreting graphs. |  |  | Discrete and continuous data. Using appropriate graphs to represent data.  Reading and interpreting graphs. |  |  | Discrete and continuous data. Using appropriate graphs to represent data.  Reading and interpreting graphs. |  |