**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 divisionRounding  |  |  | Fractions, decimals and Percentages (including recurring decimals).Interpret standard form A x 10n, where 1 ≤ A < 10 and n is an integerIndex Laws |  |  | Calculate with roots, and with integer and fractional indices. |  |  | Measure and accuracySurds  |  |  |  | Gap analysis revision and mock exams | Gap analysis revision.**GCSE EXAMS** |
| **Algebra**  |  | Notation, vocabulary and manipulationUnderstanding 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 outputsSequences. 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 proportionGrowth 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 divisionRounding  | Fractions decimals and percentages  |  | Structure and calculation.Using + - x ÷ < > = ≤ ≥ ≠ Adding, subtracting, multiplication and divisionRounding |  |  | 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. |  |