**Year 7 Mathematics Curriculum overview**

|  |  |
| --- | --- |
| **Overview** | **Assessed piece/skills** |
| Each term pupils will cover topics from each of the strands in the KS 3 program of study:   * Number * Algebra * Ratio, proportion and rates of change * Geometry and measures * Statistics and probability | Pupils will be assessed every four units of work.  They will be tested on their ability to:   * apply standard techniques * reason, interpret and communicate Mathematically * solve problems   Assessment 4: End of year Summative examinations  Non-calculator and Calculator skills will be assessed. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| Negative numbers  Algebraic manipulation  Averages  Number types | Perimeter and area  Ratio  Sequences  Probability | Fractions  Angles  Graphs | Presenting data Measures  Surface area | Volume  Equations  Percentages | Transformations  Decimals  Constructions |

**Mathematics year 7 Assessment summary for parents**

|  |  |  |
| --- | --- | --- |
|  | **Topic** | **Type of assessment** |
| Assessment 1  September to mid-November | Topic 1: Number: Negative numbers 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 2: Algebraic manipulation 25% |
| Topic 3: Statistics: Averages 25% |
| Topic 4: Number: calculations, primes 25% |
| Assessment 2  Mid-November to end of January | Topic 5: Geometry: Perimeter and area 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 6: Number: Ratio and proportion 25% |
| Topic 7: Algebra: Arithmetic progressions 25% |
| Topic 8: Probability 25% |
| Assessment 3  February to mid April | Topic 9: Number: Fractions 25% | Formal  1 hour exam  **Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistic: Diagrams and charts 25% |
| Summative Assessment  Mid-April to July | End of Year Assessment: Covering all topics covered since September  Non-calculator paper 50%  Calculator paper 50% | Formal  2 x 1 hour exam  **100% of summative** |

**Year 8 Mathematics Curriculum overview**

|  |  |
| --- | --- |
| **Overview** | **Assessed piece/skills** |
| Each term pupils will cover topics from each of the strands in the KS 3 program of study:   * Number * Algebra * Ratio, proportion and rates of change * Geometry and measures * Statistics and probability | Pupils will be assessed every four units of work.  They will be tested on their ability to:   * apply standard techniques * reason, interpret and communicate Mathematically * solve problems   Assessment 4: End of year Summative examinations  Non-calculator and Calculator skills will be assessed. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| Number skills  Algebraic manipulation  Averages  Number types | Perimeter and area  Ratio + proportion  Sequences  Probability | Fractions  Angles  Graphs | Presenting data Measures  Surface area | Volume  Equations  Percentages | Transformations  Decimals  Constructions |

**Mathematics year 8 Assessment summary for parents**

|  |  |  |
| --- | --- | --- |
|  | **Topic** | **Type of assessment** |
| Assessment 1  September to mid-November | Topic 1: Number: Negative numbers 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 2: Algebraic manipulation 25% |
| Topic 3: Statistics: Averages 25% |
| Topic 4: Number: calculations, primes 25% |
| Assessment 2  Mid-November to end of January | Topic 5: Geometry: Perimeter and area 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 6: Number: Ratio and proportion 25% |
| Topic 7: Algebra: Arithmetic progressions 25% |
| Topic 8: Probability 25% |
| Assessment 3  February to mid April | Topic 9: Number: Fractions 25% | Formal  1 hour exam  **Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistic: Diagrams and charts 25% |
| Summative Assessment  Mid-April to July | End of Year Assessment: Covering all topics covered since September  Non-calculator paper 50%  Calculator paper 50% | Formal  2 x 1 hour exam  **100% of summative** |

**Year 9 Mathematics Curriculum overview**

|  |  |
| --- | --- |
| **Overview** | **Assessed piece/skills** |
| Each term pupils will cover topics from each of the strands in the KS 3 program of study:   * Number * Algebra * Ratio, proportion and rates of change * Geometry and measures * Statistics and probability | Pupils will be assessed every four units of work.  They will be tested on their ability to:   * apply standard techniques * reason, interpret and communicate Mathematically * solve problems   Assessment 4: End of year Summative examinations  Non-calculator and Calculator skills will be assessed. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| Estimation  Algebraic manipulation  Averages  Number skills | Area  Ratio + proportion  Sequences  Probability | Fractions  Angles  Graphs | Presenting data Measures  Surface area | Volume  Equations  Percentages | Transformations  Decimals/Inequalities  Constructions |

**Mathematics year 9 Assessment summary for parents (Core + Foundation)**

|  |  |  |
| --- | --- | --- |
| **Date** | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1  September  to  mid-November | Topic 1: Number: Negative numbers 25% | Formal  1 hour exam  Not part of summative |
| Topic 2: Algebra: Algebraic manipulation 25% |
| Topic 3: Statistics: Averages 25% |
| Topic 4: Number: calculations and primes 25% |
| Assessment 2  Mid-November  to  end of January | Topic 5: Geometry: Perimeter and area 25% | Formal  1 hour exam  Not part of summative |
| Topic 6: Number: Ratio and Proportion 25% |
| Topic 7: Algebra: Arithmetic progressions 25% |
| Topic 8: Probability 25% |
| Assessment 3  February - mid April | Topic 9: Number : Fractions 25% | Formal  1 hour exam  **Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistics: Diagrams and charts 25% |
| Summative Assessment  Mid-April to July | End of Year Assessment: Covering all topics covered since September  Non-calculator paper 50%  Calculator paper 50% | Formal  2 x 1 hour exam  **100% of summative** |

**Mathematics year 9 Assessment summary for parents (Higher)**

|  |  |  |
| --- | --- | --- |
|  | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1  September to mid-November | Topic 1: Number: rounding and calculator skills 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 2: Algebra: Algebraic manipulation 25% |
| Topic 3: Statistics: Averages 25% |
| Topic 4: Number: Indices and standard form 25% |
| Assessment 2  Mid-November to end of January | Topic 5: Geometry: Perimeter/area inc Circles 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 6: Number: Ratio and Proportion 25% |
| Topic 7: Algebra: Sequences 25% |
| Topic 8: Probability 25% |
| Assessment 3  February to mid April | Topic 9: Number : Fractions 25% | Formal  1 hour exam  **Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistics: Diagrams and charts 25% |
| Summative Assessment  Mid-April to July | End of Year Assessment: Covering all topics covered since September  Non-calculator paper 50%  Calculator paper 50% | Formal  2 x 1 hour exam  **100% of summative** |

**Year 9 Enhanced Mathematics Curriculum overview**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| Upper/Lower bounds  Solve quadratics  Presenting Data  Number skills | Pythagoras’ theorem  Proportion  Sequences  Probability | Percentages  Congruency and similarity  Graphs | Presenting data  Equations  Surface area | Volume  Simultaneous equations  Trigonometry | Graphs  Inequalities  Constructions  Algebraic fractions |

**Mathematics year 9 Assessment summary for parents (Enhanced)**

|  |  |  |
| --- | --- | --- |
|  | **Assessment Descriptions** |  |
| Assessment 1  September to mid-November | Topic 1: Number: limits and bounds 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 2: Algebra: straight line graphs 25% |
| Topic 3: Statistics: Diagrams and charts 25% |
| Topic 4: Number: Indices and standard form 25% |
| Assessment 2  Mid-November to end of January | Topic 5: Geometry: Circles and Pythagoras 25% | Formal  1 hour exam  **Not part of summative** |
| Topic 6: Number: Proportion 25% |
| Topic 7: Algebra: Sequences 25% |
| Topic 8: Probability 25% |
| Assessment 3  February to mid April | Topic 9: Number : Percentages 25% | Formal  1 hour exam  **Not part of reporting** |
| Topic 10: Geometry: Congruency and similarity 25% |
| Topic 11: Algebra: Simultaneous equations 25% |
| Topic 12: Statistics: Diagrams and charts 25% |
| Summative Assessment  Mid-April to July | End of Year Assessment: Covering all topics covered since September  Non-calculator paper 50%  Calculator paper 50% | Formal  2 x 1 hour exam  **100% of summative** |

**Year 10 and 11 Mathematics Curriculum overview**

|  |  |  |
| --- | --- | --- |
| **10** | Pupils will be following the EDEXCEL G.C.S.E. qualification at either Foundation or Higher tier. | Pupils will be assessed 4 times a year:  Assessment 1: Topics 1 - 4  Assessment 2: Topics 5 - 8  Assessment 3: Topics 9 - 12  Assessment 4: End of year Summative examination  Non-calculator and Calculator skills will be assessed. |
| **11** | Pupils will be following the EDEXCEL G.C.S.E. qualification at either Foundation or Higher tier. | Pupils will be assessed 3 times a year:  Assessment 1: Number, algebra, Geometry, Statistics and probability  Assessment 2: Mock Examinations  Assessment 3: GCSE examination |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| **10**  **Foundation** | Negative numbers  Manipulate expression  Averages | Primes, HCF/LCM  BIDMAS  Area and perimeter  Ratio | Sequences  Probability  Fractions | 2D shapes and angles  Linear graphs  Statistical diagrams | Timetables  Travel graphs and compound measure  Volume, surface area  Linear equations | Percentages  Transformation  Decimals  Constructions |
| **10**  **Core** | Estimating + rounding  Manipulate expression  Averages | Standard form  Area and perimeter  Ratio | Sequences  Probability  Fractions | Angles  Linear graphs  Scatter graphs  Box plots | Compound measures  Volume and SA  Linear equations | Percentages  Transformations |
| **10**  **Higher** | Limits and bounds  Factorising quadratics  Cumulative freq and box plots | Indices, standard form  Circles  Pythagoras’ Theorem | Proportion  Sequences  Probability  Percentages | Similarity  Congruency  Linear graphs | Scattergraphs  Linear equations | Surface area and volume  Simultaneous equ |
| **10**  **Enhanced** | Limits and bounds  Recurring decimals  Factorising quadratics  Complete the square Cumulative freq, box plots and histograms | Indices and surds Circle theorems  Direct and inverse proportion | Sequences  Probability  Percentages | Congruency and similarity  Linear graphs  Scattergraphs and time series | Linear equations  Expand binomials  Surface area and Volume | Simultaneous equ Pythagoras and Trigonometry |
| **Year** | **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| **11**  **Foundation** | Estimate and round  Algebraic manipulation  Standard form  Circles | Linear graphs Scattergraphs  Venn diagrams  Volume and SA | Percentages  Inequalities  Formulae  Graphs | Simultaneous Eq basic  Pythagoras’ theorem  Congruent + similar  Proportion | Revision |  |
| **11**  **Core** | Inequalities  Constructions Formulae | Angles – polygons  Graphs  Simultaneous eq | Pythagoras’ theorem  Trigonometry  Congruent + similar | Proportion  Factorise quadratics | Revision |  |
| **11**  **Higher** | Trigonometry  Common graphs  Inequalities  Loci | Algebraic fraction  Circle theorems  Graphs – tangents/area  Similar area vol | Frequency tree  Transformations  Functions  Non-right angled trig | Quadratic equations  Transform graphs  Fractional equations | Equation of circle  Revision |  |
| **11**  **Enhanced** | Common graphs  Inequalities  Loci  Vectors | Algebraic fractions  Graphs – tangents/area  Equation of circle  Frequency tree | Transformations  Functions  Non-right angled trig | Quadratic equations  Transform graphs  Fractional equations | Iteration  Revision |  |

**Mathematics year 10 Assessment summary for parents**

|  |  |  |
| --- | --- | --- |
| **Date** | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1  September - mid-November | Number | Short in class assessments  Not part of summative |
| Algebra |
| Statistics |
| Number |
| Assessment 2  Mid-November - end of January | Geometry and measures: | Short in class assessments  Not part of summative |
| Ratio, proportion and rates of change |
| Algebra |
| Probability |
| Assessment 3  February - mid April | Number | Short in class assessments  Not part of reporting |
| Geometry and measures |
| Algebra |
| Statistics |
| Summative Assessment  Mid - April to July | End of Year Assessment:  Non-calculator paper 50%  Calculator paper 50% | Formal 2 x  1 hour 30 min exam  **100% of summative** |

**Mathematics year 11 Assessment summary for parents**

|  |  |  |
| --- | --- | --- |
| **Date** | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1  September - mid-November | Number: | Short in class assessments  Not part of summative |
| Algebra: |
| Probability and Statistics: |
| Geometry and Measures |
| Assessment 2  Mid-November - end of January | Number: | Short in class assessments  Not part of summative |
| Algebra: |
| Probability and Statistics: |
| Geometry and Measures: |
| Assessment 3  February - mid April | **Mock GCSE examination**   * Non-calculator paper * Calculator paper * Calculator paper | Formal  3 x 1 hour 30 min exam  **100% of summative** |