**Year 7 Mathematics Curriculum overview**

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| **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. |

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| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| Negative numbersAlgebraic manipulationAveragesNumber types | Perimeter and areaRatio SequencesProbability | FractionsAnglesGraphs | Presenting data MeasuresSurface area | VolumeEquationsPercentages | TransformationsDecimalsConstructions  |

**Mathematics year 7 Assessment summary for parents**

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| --- | --- | --- |
|  | **Topic** | **Type of assessment** |
| Assessment 1September to mid-November | Topic 1: Number: Negative numbers 25% | Formal1 hour exam**Not part of summative** |
| Topic 2: Algebraic manipulation 25% |
| Topic 3: Statistics: Averages 25% |
| Topic 4: Number: calculations, primes 25% |
| Assessment 2Mid-November to end of January | Topic 5: Geometry: Perimeter and area 25% | Formal1 hour exam**Not part of summative** |
| Topic 6: Number: Ratio and proportion 25% |
| Topic 7: Algebra: Arithmetic progressions 25% |
| Topic 8: Probability 25% |
| Assessment 3February to mid April | Topic 9: Number: Fractions 25% | Formal1 hour exam**Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistic: Diagrams and charts 25% |
| Summative AssessmentMid-April to July | End of Year Assessment: Covering all topics covered since SeptemberNon-calculator paper 50%Calculator paper 50% | Formal2 x 1 hour exam**100% of summative** |

**Year 8 Mathematics Curriculum overview**

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| **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. |

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| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| Number skillsAlgebraic manipulationAveragesNumber types | Perimeter and areaRatio + proportion SequencesProbability | FractionsAnglesGraphs | Presenting data MeasuresSurface area | VolumeEquationsPercentages | TransformationsDecimalsConstructions |

**Mathematics year 8 Assessment summary for parents**

|  |  |  |
| --- | --- | --- |
|  | **Topic** | **Type of assessment** |
| Assessment 1September to mid-November | Topic 1: Number: Negative numbers 25% | Formal1 hour exam**Not part of summative** |
| Topic 2: Algebraic manipulation 25% |
| Topic 3: Statistics: Averages 25% |
| Topic 4: Number: calculations, primes 25% |
| Assessment 2Mid-November to end of January | Topic 5: Geometry: Perimeter and area 25% | Formal1 hour exam**Not part of summative** |
| Topic 6: Number: Ratio and proportion 25% |
| Topic 7: Algebra: Arithmetic progressions 25% |
| Topic 8: Probability 25% |
| Assessment 3February to mid April | Topic 9: Number: Fractions 25% | Formal1 hour exam**Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistic: Diagrams and charts 25% |
| Summative AssessmentMid-April to July | End of Year Assessment: Covering all topics covered since SeptemberNon-calculator paper 50%Calculator paper 50% | Formal2 x 1 hour exam**100% of summative** |

**Year 9 Mathematics Curriculum overview**

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| **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. |

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| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| EstimationAlgebraic manipulationAveragesNumber skills | AreaRatio + proportionSequencesProbability | FractionsAnglesGraphs | Presenting data MeasuresSurface area | VolumeEquationsPercentages | TransformationsDecimals/InequalitiesConstructions |

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

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| --- | --- | --- |
| **Date** | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1Septembertomid-November | Topic 1: Number: Negative numbers 25% | Formal1 hour examNot part of summative |
| Topic 2: Algebra: Algebraic manipulation 25% |
| Topic 3: Statistics: Averages 25% |
| Topic 4: Number: calculations and primes 25% |
| Assessment 2Mid-Novembertoend of January | Topic 5: Geometry: Perimeter and area 25% | Formal1 hour examNot part of summative |
| Topic 6: Number: Ratio and Proportion 25% |
| Topic 7: Algebra: Arithmetic progressions 25% |
| Topic 8: Probability 25% |
| Assessment 3February - mid April | Topic 9: Number : Fractions 25% | Formal1 hour exam**Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistics: Diagrams and charts 25%  |
| Summative AssessmentMid-April to July | End of Year Assessment: Covering all topics covered since SeptemberNon-calculator paper 50%Calculator paper 50% | Formal2 x 1 hour exam**100% of summative** |

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

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| --- | --- | --- |
|  | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1September to mid-November | Topic 1: Number: rounding and calculator skills 25% | Formal1 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 2Mid-November to end of January | Topic 5: Geometry: Perimeter/area inc Circles 25% | Formal1 hour exam**Not part of summative** |
| Topic 6: Number: Ratio and Proportion 25% |
| Topic 7: Algebra: Sequences 25% |
| Topic 8: Probability 25% |
| Assessment 3February to mid April | Topic 9: Number : Fractions 25% | Formal1 hour exam**Not part of reporting** |
| Topic 10: Geometry: Angles 25% |
| Topic 11: Algebra: Graphs 25% |
| Topic 12: Statistics: Diagrams and charts 25% |
| Summative AssessmentMid-April to July | End of Year Assessment: Covering all topics covered since SeptemberNon-calculator paper 50%Calculator paper 50% | Formal2 x 1 hour exam**100% of summative** |

**Year 9 Enhanced Mathematics Curriculum overview**

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| --- | --- | --- | --- | --- | --- |
| **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| Upper/Lower boundsSolve quadraticsPresenting DataNumber skills | Pythagoras’ theoremProportionSequencesProbability | PercentagesCongruency and similarityGraphs | Presenting dataEquationsSurface area | VolumeSimultaneous equationsTrigonometry | GraphsInequalitiesConstructionsAlgebraic fractions |

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

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|  | **Assessment Descriptions** |  |
| Assessment 1September to mid-November | Topic 1: Number: limits and bounds 25% | Formal1 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 2Mid-November to end of January | Topic 5: Geometry: Circles and Pythagoras 25% | Formal1 hour exam**Not part of summative** |
| Topic 6: Number: Proportion 25% |
| Topic 7: Algebra: Sequences 25% |
| Topic 8: Probability 25% |
| Assessment 3February to mid April | Topic 9: Number : Percentages 25% | Formal1 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 AssessmentMid-April to July | End of Year Assessment: Covering all topics covered since SeptemberNon-calculator paper 50%Calculator paper 50% | Formal2 x 1 hour exam**100% of summative** |

**Year 10 and 11 Mathematics Curriculum overview**

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| **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 - 4Assessment 2: Topics 5 - 8Assessment 3: Topics 9 - 12Assessment 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 probabilityAssessment 2: Mock Examinations Assessment 3: GCSE examination |

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| **Year** | **Half term 1** | **Half term 2** | **Half term 3** | **Half term 4** | **Half term 5** | **Half term 6** |
| **10** **Foundation** | Negative numbersManipulate expressionAverages | Primes, HCF/LCMBIDMASArea and perimeterRatio | SequencesProbabilityFractions | 2D shapes and anglesLinear graphsStatistical diagrams | TimetablesTravel graphs and compound measureVolume, surface areaLinear equations | PercentagesTransformationDecimalsConstructions |
| **10** **Core** | Estimating + roundingManipulate expressionAverages | Standard formArea and perimeterRatio | SequencesProbabilityFractions | AnglesLinear graphsScatter graphsBox plots | Compound measuresVolume and SALinear equations | PercentagesTransformations |
| **10** **Higher** | Limits and boundsFactorising quadraticsCumulative freq and box plots | Indices, standard formCirclesPythagoras’ Theorem | ProportionSequencesProbabilityPercentages | SimilarityCongruencyLinear graphs | Scattergraphs Linear equations | Surface area and volumeSimultaneous equ |
| **10****Enhanced** | Limits and boundsRecurring decimalsFactorising quadraticsComplete the square Cumulative freq, box plots and histograms | Indices and surds Circle theoremsDirect and inverse proportion | SequencesProbabilityPercentages | Congruency and similarityLinear graphsScattergraphs and time series | Linear equationsExpand binomialsSurface 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 roundAlgebraic manipulationStandard formCircles | Linear graphs ScattergraphsVenn diagramsVolume and SA | PercentagesInequalitiesFormulaeGraphs | Simultaneous Eq basicPythagoras’ theoremCongruent + similarProportion | Revision |  |
| **11****Core** | InequalitiesConstructions Formulae | Angles – polygonsGraphsSimultaneous eq | Pythagoras’ theoremTrigonometryCongruent + similar | ProportionFactorise quadratics | Revision |  |
| **11****Higher** | TrigonometryCommon graphsInequalitiesLoci | Algebraic fractionCircle theoremsGraphs – tangents/areaSimilar area vol | Frequency treeTransformationsFunctionsNon-right angled trig | Quadratic equationsTransform graphsFractional equations | Equation of circleRevision |  |
| **11****Enhanced** | Common graphsInequalitiesLociVectors | Algebraic fractionsGraphs – tangents/areaEquation of circleFrequency tree | TransformationsFunctionsNon-right angled trig | Quadratic equationsTransform graphsFractional equations | IterationRevision |  |

**Mathematics year 10 Assessment summary for parents**

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| --- | --- | --- |
| **Date** | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1September - mid-November | Number  | Short in class assessmentsNot part of summative |
| Algebra  |
| Statistics  |
| Number |
| Assessment 2Mid-November - end of January | Geometry and measures:  | Short in class assessmentsNot part of summative |
| Ratio, proportion and rates of change  |
| Algebra  |
| Probability  |
| Assessment 3February - mid April | Number  | Short in class assessmentsNot part of reporting |
| Geometry and measures  |
| Algebra  |
| Statistics  |
| Summative AssessmentMid - April to July | End of Year Assessment: Non-calculator paper 50%Calculator paper 50% | Formal 2 x1 hour 30 min exam**100% of summative** |

**Mathematics year 11 Assessment summary for parents**

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| **Date** | **Assessment Descriptions** | **Type of assessment** |
| Assessment 1September - mid-November | Number:  | Short in class assessmentsNot part of summative |
| Algebra:  |
| Probability and Statistics:  |
| Geometry and Measures  |
| Assessment 2Mid-November - end of January | Number:  | Short in class assessmentsNot part of summative |
| Algebra:  |
| Probability and Statistics:  |
| Geometry and Measures:  |
| Assessment 3February - mid April | **Mock GCSE examination**  * Non-calculator paper
* Calculator paper
* Calculator paper
 | Formal 3 x 1 hour 30 min exam**100% of summative** |