

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9	Focus:	1. Algebra - Linear and Quadratic Expressions 2. Linear Equations 3. Indices 4. Quadratic Equations	5. Standard Form 6. Rearranging Formulae 7. Fractions, Decimals and Bounds	8. Proportion and Scales 9. Angles 10. Pythagoras and Trigonometry	11. Substitution 12. Graphs	13. Inequalities 14. Transformations	15. Similarity and Congruency 16. Equations and Simultaneous Equations 17. Area
	Assessment:	Assessment 1		Assessment 2	Assessment 3		End of Year
Year 8	Focus:	1. Fractions and FDP 2. Solving Equations 3. Ratio and Proportion 4. Percentages	5. Substitution 6. Speed 7. Real Life Graphs	8. Factors, Multiples, Primes 9. Set Notation 10. Product of Primes 11. Constructions	12. Decimals 13. Rounding and Estimation 14. Pythagoras 15. Linear Graphs	16. Quadratic Graphs 17. Sequences 18. Area and Perimeter 19. Circles	20. Scatter Graphs 21. Volume 22. Density 23. Surface Area 24. Averages
	Assessment:		Assessment 1	Assessment 2		End of Year	
Year 7	Focus:	1. Expressions 2. Using a Calculator 3. Probability	4. Expanding Brackets 5. Rounding 6. Angles 1 7. Pie Charts 8. Averages 1	9. Factors, multiples, primes and factorising 10. FDP 11. Substitution 12. Decimals	13. Angles 2 14. Averages 2 15. Division	16. Units of Measure 17. Data Handling 18. Representing Data 19. Function Machines 20. Solving Equations	21. Properties of Shapes 22. Area 23. Coordinates and Graphs
	Assessment:	Baseline	Assessment 1	Assessment 2		End of Year	

Year  
7

**CEIAG**

- Exploration of Maths in real life, making connections to Units of Measure and Areas.
- Statisticians use Averages, Graphs and Charts to analyse results, see patterns in data and predict future trends.

**SMSC**

- Developing an enquiring mind, a sense of wonder, using logic, problem-solving.
- Articulating and discussing mathematical ideas.
- Ethics around probability and gambling.

**Enrichment**

- Monthly Maths Mind Twister
- Maths Surgery - one-to-one
- UKMT Junior Maths Challenge

Year  
8

**CEIAG**

- Area, Perimeter and Volume used by Designers and Engineers, who need to know exact areas and volumes when designing projects.
- Percentages, Decimals and Fractions used in Business and Retail, to calculate percentage profit and discounts on their products.
- Statisticians use Averages, Graphs and Probability to analyse results, see patterns in data and predict future trends.

**SMSC**

- Describing and modelling reality.
- Learning to look out for misleading graphs and charts.

**Enrichment**

- Monthly Maths Mind Twister
- Maths Surgery - one-to-one
- UKMT Junior Maths Challenge

Year  
9

**CEIAG**

- Percentages used by a Sports Analyst to measure performance and track improvement and also in the Financial Sector, to calculate investment performance, borrowing and lending costs.
- Interest and depreciation calculations covered in Percentages.
- Standard Form used by Scientists when working with molecules and atoms, and Astronomers to measure large distances in space.
- Financial officers use Formulae to work out pricing structures for car hire, gas/electricity pricing.

**SMSC**

- Using logic and mathematical reasoning to tackle problems faced in real life.

**Enrichment**

- Monthly Maths Mind Twister
- Maths Surgery - one-to-one
- Problem-solving
- UKMT Intermediate Maths Challenge

		Pathway	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	GCSE Higher	Focus:	1. Index Laws 2. Estimations & 3. Standard Form 4. Quadratics and Cubics 5. Direct and Inverse Proportion	6. Constructions and Loci 7. Rational and Irrational Numbers 8. Rearranging Formulae 9. Functions	10. Arcs and Sectors 11. Surface Area and Volumes 12. Bounds 13. Transformations	14. Similarity - Area and Volume 15. Probability 16. Trigonometry in 2D/3D 17. Linear Graphs	18. Linear Inequalities – Regions 19. Quadratic Equations 20. Quadratic Inequalities 21. Data Processing – Mean from a table	22. Representing Continuous Data 23. Comparing Data 24. Sampling Methods 25. Circle Theorems 26. Growth and Decay 27. Completing the Square
	GCSE Foundation	Focus:	1. Index Laws 2. Standard Form 3. Percentages 1: Calculations with and without a calculator 4. Expanding Brackets and Factorising 5. Solving Linear Equations	6. Ratio and Proportion 7. Constructions 8. Loci 9. Venn Diagrams 10. Reciprocals, Factors and Multiples 11. Substitution	12. Pythagoras 13. Frequency Tables 14. Two Way Tables and Frequency Trees 15. Probability Tree Diagrams 16. Percentages 2 17. Reverse Percentages 18. Compound Interest	19. Fractions 20. Linear Graphs 21. Equation of a Line 22. Linear Sequences 23. Special Sequences 24. Decimals 25. Estimations	26. Area of 2D Shapes 27. Circumference and Area of Circles 28. Area of Composite Shapes 29. Compound Measures	30. Real Life Graphs 31. Volume of Prisms 32. Surface Area of Prisms
		Assessment:		Assessment 1	Assessment 2	Mock Assessment		End of Year Assessment

## CEIAG

- Transformations / Enlargement used by Designers, who draw plans to scale.
- Pythagoras and Trigonometry used in navigation by Sailors to calculate distances and bearings and by Surveyors and Architects to calculate angles and lengths.
- Area calculations required for decorating, whether painting, tiling or laying carpets.
- Statisticians use Averages, Graphs and Probability to analyse results, see patterns in data and predict future trends. Linked to Sciences and Geography at 'A' level and University degrees.

## SMSC

- Harder problem-solving and real-life applications.
- Recognising bias and misleading graphs and questionnaires.
- Multiplicative reasoning used to determine best value for money.

## Enrichment

- Monthly Maths Mind Twister
- Maths Surgery - one-to-one

Year 11	Pathway		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1&2
	Higher	Focus:	Unit 12: Similarity & Congruence	Unit 14: Further Statistics	Unit 16: Circle Theorems	Unit 18: Vectors & Geometric Proof	Revision & Exam Preparation
			Unit 13: Further Trigonometry	Unit 15: Equations & Graphs	Unit 17: More Algebra	Unit 19: Proportion & Graphs	
	Assessment:		Mock Examinations: November & March				
	Foundation	Focus:	Unit 13: Probability	Unit 15: Constructions, Loci & bearings	Unit 17: Perimeter, Area & Volume 2	Unit 19: Congruence, Similarity & Vectors	GCSE Examinations
			Unit 14: Multiplicative Reasoning	Unit 16: Quadratic Equations & Graphs	Unit 18: Fractions, Indices & Standard Form	Unit 20: More Algebra	
Assessment:			Mock Examinations: November & March				

## CEIAG

- Architects and Designers produce accurate plans using Construction techniques.
- Standard Form used by Scientists when working with molecules and atoms, and Astronomers to measure large distances in space.

## SMSC

- Discovering proofs, seeking truth, articulating with logical reasoning/argument.
- Understanding financial terms through finance day

## Enrichment

- Monthly Maths Mind Twister
- Maths Surgery: one-to-one
- Finance Day
- Boost and A-Level taster sessions
- GCSE Statistics
- Level 2 Further Maths