The Totteridge Academy
The best in everyone™
Part of United Learning

Subject: Mathematics
Year: 7

OVERVIEW	In Mathematics we strive to develop our students into skilled strategic problems solvers who are Maths literate and fluent in mathematical procedures. We believe in setting a high level of challenge, while sequencing the curriculum so that students keep practicing topics they have learnt before. In Y7 students first develop a firm foundation in Number and then apply this to learning core concepts in algebra, geometry and statistics.

Term	Focus	Assessment
Aut 1	• Place value and number sense • Addition and Subtraction • Perimeter • Rounding & Estimation (in real life situations)	Topic tests throughout the term and a short half term assessment.
Aut 2	• Multiplication and Division • Factors and Multiples • Area of rectangles and triangles and parallelograms	A 75 minute assessment on all topics learnt this year.
Spr 1	• Fractions as part of a whole • Fractions as a value • Fractions as an operation	Topic tests throughout the term.
Spr 2	• Order of operations • Basic rules of algebra • Expand and factorise • Substitution	A 75 minute assessment on all topics learnt this year.
Sum 1	• Angles • Polygons • Symmetry and reflection • Coordinates	Topic tests throughout the term.
Sum 2	• Mean • Two way tables & Venn diagrams	Two papers, 1 hour each, on all topics learnt this year.

Home Learning:
- Minimum one weekly task on Hegarty Maths. This should take approximately 45 minutes to complete.

Useful resources:
- www.hegartymaths.com
- www.ttrockstars.com

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Subject: Mathematics
Year: 8

OVERVIEW	In Mathematics we strive to develop our students into skilled strategic problems solvers who are Maths literate and fluent in mathematical procedures. We believe in setting a high level of challenge, while sequencing the curriculum so that students keep practicing topics they have learnt before. In Y8 students will deepen their understanding in algebra, learning to solve linear equations for the first time and develop their understanding of ratio and proportional reasoning.

Term	Focus	Assessment
Aut 1	• Indices • Prime Factorisation • Rounding • Fractions • Negative numbers revision	Topic tests throughout the term and a short half term assessment.
Aut 2	• Linear equations • Coordinates and basic graphs	A 75 minute assessment on all topics learnt this year.
Spr 1	• Units of measurement • Angles • Circumference	Topic tests throughout the term.
Spr 2	• Proportional reasoning • Fractions, decimals and percentages • Ratio	A 75 minute assessment on all topics learnt this year.
Sum 1	• Area of composite shapes • Presenting and interpreting data • Averages	Topic tests throughout the term.
Sum 2	• Two way tables • 3-D visualisation • Volume	Two papers, 1 hour each, on all topics learnt this year.

Home Learning:
- Minimum one weekly task on Hegarty Maths. This should take approximately 45 minutes to complete.

Useful resources:
- www.hegartymaths.com
- www.ttrockstars.com

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Subject: Mathematics
Year: 9

OVERVIEW

In Mathematics we strive to develop our students into skilled strategic problems solvers who are Maths literate and fluent in mathematical procedures. We believe in setting a high level of challenge, while sequencing the curriculum so that students keep practicing topics they have learnt before. In Y9 students formally follow the 3 year GCSE course following the AQA specification. They consolidate their fluency in Number and Algebra to access higher level proportional reasoning, geometry and statistics.

Term	Focus	Assessment
Aut 1	• Place value & Number Properties • Four operations with decimals • Indices Powers & Roots • Factors, Multiples & Primes • Basic ratio	Topic tests throughout the term and a short half term assessment.
Aut 2	• FDP • Fractions • Percentages • Proportion	A 90 minute assessment on all topics learnt this year.
Spr 1	• Notation • Simplifying & Index Laws • Expanding & Factorising • Expressions & Substitution	Topic tests throughout the term.
Spr 2	• Linear Equations • Linear Inequalities • Perimeter & Area • Pythagoras	A 90 minute assessment on all topics learnt this year.
Sum 1	• Properties of shapes • Angle facts • Parallel lines • Circles • Volume & Surface Area	Topic tests throughout the term.
Sum 2	• Sequences • Basic vectors	Two papers, 90 minutes each, on all topics learnt this year.

Home Learning:

- Minimum one weekly task on Hegarty Maths. This should take approximately 45 minutes to complete.

Useful resources:

- www.hegartymaths.com
- www.ttrockstars.com

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Subject: Mathematics
Year: 10

OVERVIEW

In Mathematics we strive to develop our students into skilled strategic problems solvers who are Maths literate and fluent in mathematical procedures. We believe in setting a high level of challenge, while sequencing the curriculum so that students keep practicing topics they have learnt before. From the middle of Y10 students follow the curriculum for either Higher or Foundation for the AQA Specification. The aim is to cover the bulk of the GCSE curriculum by the end of Y10.

Term	Focus	Assessment
Aut 1	• Rearrange formulae • Linear Graphs • y = mx + c • *Further Expanding and Factorising (Higher only)*	Topic tests throughout the term and a short half term assessment.
Aut 2	• Quadratic graphs, turning points and roots • Ratio (further) • Compound Measures	A 90 minute assessment on all topics learnt this year.
Spr 1	• Linear Simultaneous Equations • Probability • *Capture and Recapture (Higher only)*	Topic tests throughout the term.
Spr 2	• Probability (continued) • Pythagoras (Foundation) • *Surds (Higher only)* • *Bounds (Higher only)*	A 90 minute assessment on all topics learnt this year.
Sum 1	• Statistics including • Types of Data, Representing Data, Analysing Data • *Further proportion (Higher only)* • *Recurring Decimals (Higher only)*	Topic tests throughout the term.
Sum 2	• *Right Angled Trigonometry (Higher only)* • Growth & Decay • Standard Form • Similar shapes	Two papers, 90 minutes each, on all topics learnt this year.

Home Learning:

- Minimum one weekly task on Hegarty Maths. This should take approximately 45 minutes to complete.

Useful resources:

- www.hegartymaths.com
- www.corbettmaths.com

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Subject: Mathematics
Year: 11

OVERVIEW

In Mathematics we strive to develop our students into skilled strategic problems solvers who are Maths literate and fluent in mathematical procedures. In Y11 each class will be following a tailored curriculum focusing on the priority topics they need to master from the AQA specification, whether Foundation or Higher. The aim is to cover all topics by the end of Spring Term to leave plenty of time for revision and preparation for exams.

Term	Focus	Assessment

Aut 1	• Foundation: Pythagoras, Trigonometry, Bearings & Scale Drawings
	• Higher: Algebraic proof
	  • Solving quadratics, Simultaneous equations, Quadratic Inequalities,
	  • Functions
	  • Iteration
		Full Non Calculator exam, 90 minutes.

Aut 2	• Foundation: Algebra Review
	• Higher:
	  • Bearings
	  • Circle theorems
	  • Further Trigonometry & Trigonometric graphs
		Three exams, 90 minutes each.
		1 Non calculator
		2 Calculator
		3 Calculator

Spr 1	• Foundation and Higher:
	  • Transformations and Congruence
	  • Similar Shapes
	  • Vectors
	• Higher only: Further Statistics
		Full Calculator exam, 90 minutes.

Spr 2	• Foundation: Number review
	• Higher:
	  • Gradients (Further), and area under a graph
	  • Kinematics
	  • Graphical transformations
		Full Calculator exam, 90 minutes.

Sum 1	• Revision and GCSE Examinations
	  • Topic master classes
	  • Exam practice
	  • Drop down day for Maths	

Sum 2	• Revision and GCSE Examinations
	  • Topic master classes
	  • Exam practice
	  • Drop down day for Maths	

Home Learning:

- Minimum five weekly tasks on Hegarty Maths as directed by the teacher

Useful resources:

- www.hegartymaths.com
- www.corbettmaths.com