

Curriculum Map

Subject: Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
7	Curriculum Topics: <ul style="list-style-type: none"> Addition and subtraction Place Value Multiplication and Division 	Curriculum Topics: <ul style="list-style-type: none"> Applied Multiplication and Division Types of Numbers ENRICHMENT: Managing Money 	Curriculum Topics: <ul style="list-style-type: none"> Fractions Percentages 	Curriculum Topics: <ul style="list-style-type: none"> Geometry Basic Algebra 	Curriculum Topics: <ul style="list-style-type: none"> Statistics Equations 	Curriculum Topics: <ul style="list-style-type: none"> Sequences Ratio and Proportion
	Links with previous topics: <ul style="list-style-type: none"> Knowledge of 4 operations from year 6 	Links with previous topics: <ul style="list-style-type: none"> Skills from Multiplication and division unit applied to problems involving powers and area. Types of number is linked to understanding of times tables and uses prior learning on powers 	Links with previous topics: <ul style="list-style-type: none"> Both fractions and percentages link to decimal place value in term 1. 	Links with previous topics: <ul style="list-style-type: none"> Geometry looks at 2D shapes using facts from the Applied Multiplication and Division unit. Basic algebra applies skills from the Types of Numbers unit (negative numbers). It also requires students to apply knowledge of powers and roots. 	Links with previous topics: <ul style="list-style-type: none"> Skills covered in the Multiplication and Division unit are applied to statistics. The unit on Equations requires students to apply their knowledge of basic algebra. 	Links with previous topics: <ul style="list-style-type: none"> The unit on Sequences requires students to apply their knowledge of basic algebra. Ratio and proportion builds on the fractions unit from term 3.
	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Half term summative assessment to check setting 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Formal assessment on work from October half term onwards for tracking deadline 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) End of year formal assessment

8	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	
	<ul style="list-style-type: none"> Fractions Percentages Decimals 	<ul style="list-style-type: none"> Geometry 1 (perimeter and area) Geometry 2 (circles and Pythagoras) Indices and standard form 	<ul style="list-style-type: none"> Algebra 1 (manipulation and equations) Algebra 2 (formulae and inequalities) 	<ul style="list-style-type: none"> Ratio and Proportion Compound measures 	<ul style="list-style-type: none"> Linear Graphs Statistics 	<ul style="list-style-type: none"> Geometry 2 (3D shapes and volume) Probability 	
	Links with previous topics: <ul style="list-style-type: none"> Consolidation and extension of fractions, decimals and percentages from year 7 	Links with previous topics: <ul style="list-style-type: none"> Skills from decimals unit applied to problems involving powers and area. Year 7 unit on geometry extended Indices and standard form is linked to Y7 topic on powers 	Links with previous topics: <ul style="list-style-type: none"> Consolidation and extension of basic algebra and equations unit in year 7 Algebra 2 builds on work completed in algebra 1 and also applies knowledge of 4 operations from year 7. 	Links with previous topics: <ul style="list-style-type: none"> Ratio and proportion uses skills from term 1 unit of fractions. Compound measures requires a good understanding of decimals as seen in term 1. 	Links with previous topics: <ul style="list-style-type: none"> The unit on linear graphs uses skills from Algebra 2 (use of a formula and rearranging formulae). The unit on Statistics consolidates and extends the Statistics unit from year 7. 	Links with previous topics: <ul style="list-style-type: none"> The unit on Geometry 2 builds on work completed in Geometry 1 Ratio and Probability applies skills covered in fractions and decimals from term 1. 	
Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Formal assessment on work from September onwards for tracking deadline 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Formal assessment on work from Christmas onwards for tracking deadline 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Formal end of year assessment 		

9	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	
	<ul style="list-style-type: none"> • Basic Number • Angles and Scale Diagrams • Basic Algebra 	<ul style="list-style-type: none"> • Basic Decimals • Linear Graphs • Rounding • Representing Data 	<ul style="list-style-type: none"> • Basic percentages • Perimeter and area • Real life graphs 	<ul style="list-style-type: none"> • Sequences • Circles • Ratio and Proportion 	<ul style="list-style-type: none"> • Equations • Basic Probability • Scatter Graphs 	<ul style="list-style-type: none"> • Transformations • Standard form • Constructions and Loci 	
	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	
	<ul style="list-style-type: none"> • Consolidation and extension of work completed in Y7 and Y8 on types of numbers, geometry (Y7) and algebra (Y8) 	<ul style="list-style-type: none"> • Consolidation and extension of work completed in Y8 on decimals and linear graphs • Representing data builds on the Y8 statistics unit 	<ul style="list-style-type: none"> • Both fractions and percentages consolidate and build on units from Y8. • Real life graph applies skills learnt in the Linear Graphs unit of work. 	<ul style="list-style-type: none"> • Sequences unit builds on Y8 sequences work and also uses skills covered in the Basic Algebra unit. • Ratio and Proportion consolidates and extends Y8 work on ratio. 	<ul style="list-style-type: none"> • Equations unit builds on Y8 sequences work and also uses skills covered in the Basic Algebra unit. • Basic Probability consolidates and extends Y8 work on probability. 	<ul style="list-style-type: none"> • Standard form unit builds on Y8 standard form and indices work and also uses skills covered in the Basic Number unit. 	
Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:		
	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Formal assessment on work from September onwards for tracking deadline 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Formal assessment on work from Christmas onwards for tracking deadline 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • End of year formal assessment 	

10 F	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:
	<ul style="list-style-type: none"> • Number re-cap and consolidation • Pythagoras • Calculating with percentages 	<ul style="list-style-type: none"> • Measures • Statistical Measures • Indices 	<ul style="list-style-type: none"> • Algebra revision and consolidation • Congruence and similarity • Trigonometry 	<ul style="list-style-type: none"> • Further perimeter and area • Equations and inequalities review and extension • Further Circle work 	<ul style="list-style-type: none"> • Simultaneous equations • Properties of polygons • Graphs review and extension 	<ul style="list-style-type: none"> • Further probability • Volume
	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:
<ul style="list-style-type: none"> • Re-cap and extension of work on fractions and decimals from Y9 • Use of powers and rearranging formulae in Pythagoras unit • Extension of Y9 percentages (applying basic skills) 	<ul style="list-style-type: none"> • The Measures unit applies prior learning on formulae (Y9) • Indices extends the Y8 topic on indices and uses knowledge of standard form from Y9. 	<ul style="list-style-type: none"> • Re-cap and extension of Y9 algebra topic • Congruence and similarity uses skills from the proportion topic in Y9. 	<ul style="list-style-type: none"> • Extension of Y9 perimeter and area unit. • Revision and extension of Y9 equations unit unit. • Extension of Y9 unit on circles. 	<ul style="list-style-type: none"> • Skills covered in the Equations unit are applied to simultaneous equations. • Properties of polygons builds on angle work completed in Y9 term 1 	<ul style="list-style-type: none"> • Further Probability builds on the Basic Probability unit from Y9 • The unit on volume requires students to apply their knowledge of area. 	
Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	
<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Formal assessment on work from September onwards for tracking deadline 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Formal assessment on work from Christmas onwards for tracking deadline 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • End of year assessment 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	

10 H	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	
	<ul style="list-style-type: none"> • Number re-cap and consolidation • Pythagoras and Trigonometry • Statistical Measures 	<ul style="list-style-type: none"> • Indices • Surds • Polygons and 3D shapes 	<ul style="list-style-type: none"> • Percentages Extension • Congruence and similarity • Linear equations extension 	<ul style="list-style-type: none"> • Simultaneous equations • Further probability • Shape and space review and extension 	<ul style="list-style-type: none"> • Algebra: Quadratics • Algebra: Formulae • Volume • Linear Graphs Extension 	<ul style="list-style-type: none"> • Quadratic equations and their graphs • Functions • Circle Theorems • Statistics Re-cap and extension 	
	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	Links with previous topics:	
<ul style="list-style-type: none"> • Re-cap and extension of work on fractions and decimals from Y9 • Use of powers and rearranging formulae in Pythagoras unit • Extension of Y9 Statistics (applying basic skills) 	<ul style="list-style-type: none"> • Indices extends the Y8 topic on indices and uses knowledge of standard form from Y9. • Surds builds on the indices work. • Polygons and 3D shapes builds on angle work completed in Y9 term 1 	<ul style="list-style-type: none"> • Re-cap and extension of Y9 percentages topic (applying skills to financial calculations) • Congruence and similarity uses skills from the proportion topic in Y9. • Linear equations builds on Y9 equations unit 	<ul style="list-style-type: none"> • Skills covered in the Equations unit are applied to simultaneous equations. • Further Probability builds on the Basic Probability unit from Y9 • Shape and space review builds on Y9 circles work. 	<ul style="list-style-type: none"> • Quadratics unit extends basic algebra skills to quadratic expressions • Formula unit of work involves the application of all basic algebra skills. • The unit on volume requires students to apply knowledge of area. 	<ul style="list-style-type: none"> • Quadratic equations involves the application of skills learnt in the quadratics unit in term 5 • Circle theorems uses skills from circle unit. • Statistics builds on work from the Y9 Representing Data unit. 		
Assessments:	Assessments:	Assessments:	Assessments:	Assessments:	Assessments:		
<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Formal assessment on work from September onwards for tracking deadline 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Formal assessment on work from Christmas onwards for tracking deadline 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • End of year Exams 	<ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) 		

11 F	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:	Curriculum Topics:
	<ul style="list-style-type: none"> • Volume • Quadratics • Inequalities 	<ul style="list-style-type: none"> • Algebra and graphs • Sketching Graphs • Direct and Inverse Proportion 	<ul style="list-style-type: none"> • Trigonometry • Quadratic equations and graphs • Growth and decay • Vectors 	Revision for GCSE	Revision for GCSE	Revision for GCSE
	Links with previous topics: <ul style="list-style-type: none"> • Volume requires understanding of area from Y10 • Quadratics extends algebra skills • Inequalities uses skills from linear and quadratic graphs as well as skills taught on inequalities in Y10. 	Links with previous topics: <ul style="list-style-type: none"> • Sketching graphs requires an understanding of linear graphs from Y10 and quadratics in term 1. • Direct and inverse proportion extends previous learning from Y10 on proportion 	Links with previous topics: <ul style="list-style-type: none"> • Quadratic equations involves the application of skills learnt in the quadratics unit in term 5 • Growth and decay applies knowledge from percentages unit • Vectors links to transformations in Y10 	Links with previous topics:	Links with previous topics:	Links with previous topics:
Assessments: <ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Reduced GCSE exam paper in week 5 	Assessments: <ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Mock exam (non-calculator paper and calculator paper) 	Assessments: <ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Reduced GCSE paper 	Assessments: <ul style="list-style-type: none"> • Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) • Mock exam (non-calculator paper and calculator paper) 	Assessments: GCSE Exam	Assessments: GCSE Exam	

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	<ul style="list-style-type: none"> Trigonometry Re-cap and extension Growth and Decay Algebraic fractions Equation of a Circle 	<ul style="list-style-type: none"> Direct and inverse proportion Inequalities Vectors 	<ul style="list-style-type: none"> Further sketching graphs Sine and Cosine Rule Transforming functions 	<ul style="list-style-type: none"> Numerical Methods Gradients and rates of change Pre-calculus and area under a curve 	Revision for GCSE	Revision for GCSE
	Links with previous topics: <ul style="list-style-type: none"> Growth and decay applies knowledge from percentages unit Algebraic fractions uses skills from fractions and from algebra topics Equation of a circle applies and extends understanding of linear graphs 	Links with previous topics: <ul style="list-style-type: none"> Direct and inverse proportion extends previous learning on proportion Inequalities uses skills from linear and quadratic graphs as well as skills taught on inequalities in Y10. Vectors links to transformations in Y10 	Links with previous topics: <ul style="list-style-type: none"> Sine and Cosine rule extend the trigonometry unit Transforming functions combines transformations and sketching graphs. 	Links with previous topics: <ul style="list-style-type: none"> Numerical methods links to iteration in sequences Gradients and rates of change apply skills from linear graphs. Area under a curve links to gradient and requires understanding of area of 2D shapes. 	Links with previous topics:	Links with previous topics:
Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Reduced GCSE exam paper in week 5 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Mock exam (non-calculator paper and calculator paper) 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Reduced GCSE paper 	Assessments: <ul style="list-style-type: none"> Formative assessment: Mini assessment for each topic (allowing use of KO – can be SA) Mock exam (non-calculator paper and calculator paper) 	Assessments: GCSE Exam	Assessments: GCSE Exam	