



Year	Michaelmas 1	Michaelmas 2	Lent 1	Lent 2	Trinity 1	Trinity 2
7	Topic: Introduction to Algebra	Topic: Algebra and Number	Topic: Number and Shape Substantive Knowledge:	Topic: Shape and data Substantive Knowledge:	Topic: Graphs and volumes	Topic: Review and Pythagoras' Theorem
	Substantive Knowledge: Simplifying expressions, understanding 'term', expanding and factorising, substitution and solving simple equations Disciplinary Knowledge: Basic ideas of manipulating algebraic expressions	Substantive Knowledge: Solving equations, simplifying fractions, arithmetic of fractions. Percentages. Disciplinary Knowledge: Understand how to convert between fractions, decimals and percentages to use efficient methods to	HCF, LCM and Venn diagrams, metric units of measure and conversions, angle facts and how to use to solve problems. Disciplinary Knowledge: Build on number skills and problem-solving skills developed in Primary school.	Areas and perimeters, probability, averages and range Disciplinary Knowledge: Build on shape knowledge from primary school and introduce further ideas in shape and data.	Substantive Knowledge: Co-ordinates, volumes, straight line graphs, bearings, BODMAS Disciplinary Knowledge: Build on knowledge of co-ordinates to plot graphs, draw bearings and calculate volumes of	Substantive Knowledge: Recap of the work covered so far this year. Introduction to Pythagoras' Theorem Disciplinary Knowledge: Review end of year exams and consolidate knowledge of topics not answered well.
	Key Assessment Points: Week 6 – assessment on all topics in weeks 1-5	Key Assessment Points: Week 12 – assessment on all topics from week 1	Key Assessment Points: Week 18 – test on all topics from weeks 1-18	Key Assessment Points: Week 24 – test on all topics from weeks 1-24	key Assessment Points: Week 30 – test on all topics from weeks 1-30	Key Assessment Points: End of year exams covering all topics this year.
8	Topic: Algebra Substantive Knowledge: Building on algebra learnt in Year 7 and develop further such as factorising quadratics Disciplinary Knowledge: Develop knowledge of manipulating algebraic terms and solving more difficult equations	Topic: Number Substantive Knowledge: Standard form, estimation and rounding, fractions, percentages Disciplinary Knowledge: Standard form, estimation and rounding, fractions, percentages Build on number skills developed in Year 7.	Topic: Number Substantive Knowledge: Ratio and Proportion, Probability, Polygons and Areas. Disciplinary Knowledge: Build on number skills developed in Year 7 and during the last 2 terms.	Topic: Algebra and shape Substantive Knowledge: Sequences, two-way tables, inequalities, Pythagoras' Theorem Disciplinary Knowledge: Build on algebra and shape skills developed in Year 7 and during the last 3 terms.	Topic: Transformations, y=mx+c and averages Substantive Knowledge: Equations of straight lines, plotting graphs, transformations, averages, volumes, Simultaneous equations. Disciplinary Knowledge: Build on algebra and shape skills developed in Year 7 and during the last 4 terms.	Topic: Review and constructions. Substantive Knowledge: Consolidate knowledge of work covered this year. Disciplinary Knowledge: Build on all skills developed in Year 7 and during the last 5 terms. Review end of year exams and consolidate knowledge of topics not answered well.
	Key Assessment Points: Week 6 – All topics from weeks 1-5	Key Assessment Points: Week 12 – test on all topics from weeks 1-12	Key Assessment Points: Week 18 – test on all topics from weeks 1-18	Key Assessment Points: Week 24 – test on all topics from weeks 1-24	Key Assessment Points: Week 30 – test on all topics from weeks 1-30	Key Assessment Points:





					End of year exams covering all topics this year.
Topic: Algebra Substantive Knowledge: Factorising quadratics, solving equations including quadratics, rearranging formulae, nth term. Disciplinary Knowledge: Build on knowledge from previous two years.	Topic: Algebra, Shape, Probability Substantive Knowledge: Simultaneous equations, probability, angles, trigonometry. Disciplinary Knowledge: Build on knowledge from previous two years.	Topic: Shape, Number Substantive Knowledge: Transformations, Congruent triangles, Area of shapes including circles and sectors. Percentage increase, decrease including repeated change. Travel graphs Disciplinary Knowledge: Build on knowledge from previous two years.	Topic: Number and data Substantive Knowledge: Ratio and Proportion, reverse percentages, averages from a table, cumulative frequency, volume, Pythagoras Disciplinary Knowledge: Build on knowledge from previous two years.	Topic: Shape Substantive Knowledge: Trigonometry, spheres and cones and general revision of topics for end of year assessment. Disciplinary Knowledge: Build on knowledge from previous two years.	Topic: Shape Substantive Knowledge: Similar shapes, scale factors of length, area and volume, introduction to topics in the GCSE. Disciplinary Knowledge: Build on knowledge from previous two years. Review end of year exams and consolidate knowledge of topics not answered well.
Key Assessment Points: Week 6 – test on all topics from weeks 1-5	Key Assessment Points: Week 12 – test on all topics from weeks 1-12	Key Assessment Points: Week 18 – test on all topics from weeks 1-18	Key Assessment Points: Week 24 – test on all topics from weeks 1-24	Key Assessment Points: Week 30 – test on all topics from weeks 1-30	Key Assessment Points: End of year exams covering all topics this year.
Topic: Algebra	Topic: Algebra	Topic: Number	Topic: Data	Topic: Shape	Topic: Shape
Substantive Knowledge: Higher: Same as foundation plus quadratic inequalities, completing the square Foundation: Factorising quadratics, solving equations including quadratics, rearranging formulae, nth term, solving and drawing inequalities	Substantive Knowledge: Higher: Sketching regions, functions, parallel and perpendicular lines, Differentiation, standard form, indices and trigonometry Foundation: Simultaneous equations indices and standard form, graphs including y=mx+c, finding gradients and using real- life graphs.	Substantive Knowledge: Higher: Surds, arithmetic sequences, direct and inverse proportion, trig graphs and transformations of graphs. Foundation: Shading regions, BODMAS, fractions, percentages, products of primes, HCF and LCM, Venn diagrams and set notation	Substantive Knowledge: Higher: Histograms, set notation, mean from a table, cumulative frequency, dual mean, exchange rates, sequences. Foundation: Ratio and proportion, estimation, bounds, money and time, sequences, transformations, angles and polygons.	Substantive Knowledge: Higher: Bounds and transformations, sine rule, cosine rule, vectors, similar shapes and solids Foundation: Congruence, area, surface area, volume, scale factors, Pythagoras, trigonometry, bearings, circles.	Substantive Knowledge: Higher: Tree diagrams, circle theorems, volume, surface area, cones, spheres, frustrums. Foundation: Data, averages from tables, probability, Pythagoras, trigonometry, bearings, constructions Disciplinary Knowledge: Build on knowledge from
Disciplinary Knowledge:	Disciplinary Knowledge:				previous 3 years. Review end of year exams and





Build on knowledge from	Build on knowledge from	Disciplinary Knowledge:	Disciplinary Knowledge:	Disciplinary Knowledge:	consolidate knowledge of
previous 3 years.	previous 3 years.	Build on knowledge from previous 3 years.	Build on knowledge from previous 3 years.	Build on knowledge from previous 3 years.	topics not answered well.
Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:
Week 6 – test on all topics	Week 12 – test on all	Week 18 – test on all	Week 24 – IGCSE exam	Week 30 – test on all	End of year exams
from weeks 1-5	topics from weeks 1-12	topics from weeks 1-18	covering most of the	topics from weeks 1-30	covering all topics this
			topics so far		year.
Topic: Higher - Circle	Topic: Higher: Inequalities,	Topic: Higher: Vectors,	Topic: Revision	Topic: Revision	Topic: Revision
theorems, graphs,	quadratic simultaneous				
gradients and equations of	equations	Substantive Knowledge:	Substantive Knowledge:	Substantive Knowledge:	Substantive Knowledge:
straight lines	Foundation: Revision for	Foundation: Revision for	Foundation and Higher –	Foundation and Higher –	Foundation and Higher –
	iGCSE then further work	iGCSE then further work	revise all topics and work	revise all topics and	revise all topics and work
Foundation – algebra and	on Algebra and number.	on Algebra and number.	through past GCSE papers.	work through past GCSE	through past GCSE
revision for early entry				papers.	papers.
iGCSE in November	Substantive Knowledge:	Higher: Rest of content	Disciplinary Knowledge:		
	Higher – Learn key facts	completed during this	Build on the content from	Disciplinary Knowledge:	Disciplinary Knowledge:
Substantive Knowledge:	and methods in above	term and revision of all	the last four years and	Build on the content	Build on the content from
Higher - Learn the	topics.	topics started.	how to apply the correct	from the last four years	the last four years and
different circle theorems	Foundation – Recap and		skills and methods to solve	and how to apply the	how to apply the correct
and put into practise along	revision of key facts and	Disciplinary Knowledge:	problems.	correct skills and	skills and methods to
with finding gradients and	how to apply knowledge	Build on the content from		methods to solve	solve problems.
equations of straight lines	to answer exam questions.	the last four years and		problems.	
and recognising types of graphs. Differentiation as	Disciplinary Knowledge:	how to apply the correct skills and methods to			
gradient function and use	Build on the above and	solve problems.			
in kinematics.	practise in context of the	solve problems.			
iii kiiieiiiatics.	exam.				
Foundation – as above	exam.				
Touridation as above					
Disciplinary Knowledge:					
Build on the above and					
practise in context of the					
exam.					
Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points	Key Assessment Points:	Key Assessment Points:
Week 6 – Higher: test on	Week 8 – Foundation:	Mock exam papers	Regular past papers in this	Regular past papers in	GCSE
all topics from weeks 1-5	early entry iGCSE paper.		term	this term	
Foundation – Full mock	Week 12: test on all topics				
iGCSE paper	from weeks 1-12				





12	Topic: Pure and applied topics both in Maths (Book	Topic: Pure and applied topics both in Maths (Book	Topic: Pure and applied topics both in Maths and	Topic: Pure and applied topics both in Maths and	Topic: Pure and applied topics both in Maths and	Topic: Pure and applied topics both in Maths and
	1) and Further Maths (CP1)	1) and Further Maths (CP1)	Further Maths	Further Maths	Further Maths	Further Maths
	Substantive Knowledge:		Substantive Knowledge:	Substantive Knowledge:	Substantive Knowledge:	Substantive Knowledge:
	Algebra from GCSE level including quadratics,	Substantive Knowledge: Maths – Circles, trig,	Maths -	Maths -	Maths -	Maths -
	surds, simultaneous		FM – Conics, the t-	FM – Differentiation and	FM - Review all topics	FM - Differentiation,
	equations.	FM – Roots of polynomials, Proof by	formulae, numerical methods. Start FS1 book.	integration from Y13 Pure book. FS1.	covered over the year in preparation for mocks.	integration, trig from year 13 book. FP1 conics
	FM – intro to complex	induction. Then start on				2.
	numbers, matrices, series,	FP1 – Vectors, Inequalities	Disciplinary Knowledge:	Disciplinary Knowledge:	Disciplinary Knowledge:	
	Vectors	Disciplinan - Knowledge	How to apply the above to exam style questions	How to apply the above to exam style questions	How to apply the above to exam style questions	Disciplinary Knowledge: How to apply the above
	Disciplinary Knowledge:	Disciplinary Knowledge: How to apply the above to	to exam style questions	exam style questions	to exam style questions	to exam style questions
	How to apply the above to	exam style questions				to exam style questions
	exam style questions	exam seyre questions				
	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:
	Week 6 – test on algebra	Mini mocks during week	Week 18 – test on all	Week 6 – test on all topics		
	and introductory topics	10 covering all content so	topics from weeks 1-18	from weeks 1-5	End of year 12 mocks	Resit mocks
	from Book 1.	far in Maths.				
	FM test on matrices and	CP1 AS paper for FM.				
	series.					
13	Topic: Pure and applied	Topic: Pure and applied	Topic: Pure and applied	Topic: Pure and applied	Topic: Pure and applied	Topic: Pure and applied
	topics both in Maths and	topics both in Maths and	topics both in Maths and	topics both in Maths and	topics both in Maths and	topics both in Maths and
	Further Maths	Further Maths	Further Maths	Further Maths	Further Maths	Further Maths
	Substantive Knowledge:					
	Maths – partial fractions,	Substantive Knowledge:	Substantive Knowledge:	Substantive Knowledge:	Substantive Knowledge:	Substantive Knowledge:
	binomial and recap of	Maths – Trig and	Maths – differentiation	Maths – Numerical	REVISION	REVISION
	work from the summer.	modelling, sequences and	and integration	methods, vectors		
	Integration, Trig	series, parametric			Disciplinary Knowledge:	Disciplinary Knowledge:
	FM- conics, complex	equations	FM – Differential	FM – Numerical methods,	How to apply the above	How to apply the above
	numbers, further	FNA Corios evenencios	equations, Taylor series, Further Calculus, Further	reducible differential	to exam style questions	to exam style questions
	integration, volumes of revolution	FM – Series expansion, Polar coordinates,	Stats 1.	equations, FS1		
	TEVOIULIOII	hyperbolic functions,	Julis 1.	Disciplinary Knowledge:		
	Disciplinary Knowledge:	differential equations	Disciplinary Knowledge:	Disciplinary Knowledge.		
			, , , , , , , , , , , , , , , , , , , ,			





Developing strategies to answer exam style	FP1 – recap t-formulae.	How to apply the above to exam style questions	How to apply the above to exam style questions		
questions.	Disciplinary Knowledge:	to exam style questions	examistyle questions		
	How to apply the above to				
	exam style questions				
Key Assessment Points: Week 5 - Maths	Key Assessment Points: Maths – All functions	Key Assessment Points:	Key Assessment Points:	Key Assessment Points:	Key Assessment Points: A-Levels
assessment on Partial	work, Binomial, partial	January – mock papers	Revision and past papers	Revision and past	A-Ecvei3
fractions, Binomial expansion and functions.	fractions, all work from both books so far in preparation for mocks.	for both Maths and FM		papers	
Further assessment on conics and DeMoivre's	Stats and Mechanics too.				
theorem.	FM – AS paper on CP1				
	during week 9.				
	Assessment of CP2 topics				
	to prepare for mocks.				