Subject: Maths. **Foundation / Higher**
Year: 11 **Overview**

ST. MARY MAGDALENE
C OF E SCHOOL
PENINSULA CAMPUS
Excellence through innovation,
founded in faith since 1840.

Key content – knowledge and skills	National Curriculum focus
Autumn 1: Averages and range; Perimeter, area, and volume 1; Graphs; Probability; Multiplicative reasoning; Similarity and congruence; Equations and graphs **Autumn 2:** Transformations; Ratio and proportion; Right-angled triangles; More trigonometry; Further statistics **Spring 1:** Probability; Multiplicative reasoning; Perimeter, area, and volume 2; Circle theorems; More algebra; Vectors and geometric proof **Spring 2:** Quadratic equations and graphs; Fractions, indices, and standard form; More algebra; Proportion and graphs **Summer 1:** Constructions, loci, and bearings; Congruence, similarity, and vectors; Revision **A/Learn Overview:** Foundation / Higher	**Subject content from the National Curriculum Programme of Study July 2014:** **N1 – N8** **A1 – A17** **R1 – R6** **G1 – G15** **P1 – P4** **S1 – S6**

Key assessment points

There will be one assessment every three weeks, covering all content studied up to and including that point, in addition to mock assessments in Autumn 2 and Spring 2.

Students will sit their GCSE Examinations in Summer 1 and Summer 2.

Christian ethos

With all mathematics studied we will be exploring how skills such as problem solving, numerical reasoning and real life applications, covered in each topic, will make our students confident and motivaited, fully equipped to make a positive contribution to society.

British values

An explicit opportunity in the Year 11 curriculum to explore British values falls within the discussion and debate created from exploring real life applications created from mathematics. Teachers will guide and advise students appropriately.

Subject: Year 11 Maths Foundation / Higher
Long-term plan

Week	Month	Learning Intentions and/or Key Questions
Aut1-1	September	Right-angled triangles
Aut1-2		Multiplicative reasoning
Aut1-3		Constructions, loci, and bearings
Aut1-4		More trigonometry
		Further statistics
Aut1-5	October	**Half term assessment**
Aut1-6		
Aut1-7		
		Half term holiday
Aut2-1	November	Quadratic equations and graphs
Aut2-2		Perimeter, area, and volume 2
Aut2-3		Fractions, indices, and standard form
Aut2-4		Equations and graphs
Aut2-5		Circle theorems
Aut2-6	December	More algebra
Aut2-7		**End of term assessment**
		Christmas holiday
Spr1-1	January	Congruence, similarity, and vectors
Spr1-2		More algebra
Spr1-3		Vectors and geometric proof
Spr1-4		Proportion and graphs
Spr1-5		**Half term assessment**
Spr1-6	February	
		Half term holiday
Spr2-1		Revision
Spr2-2		Revision
Spr2-3	March	**End of term assessment**
Spr2-4		
Spr2-5		
Spr2-6		
	April	**Easter holiday**
Sum1-1		Revision
Sum1-2		Revision
Sum1-3	May	**Half term assessment**
Sum1-4		
Sum1-5		
Sum1-6		
	June	**Half term holiday**
Sum2-1		
Sum2-2		
Sum2-3		
Sum2-4		
Sum2-5	July	
Sum2-6		
Sum2-7		

Subject: Maths **Year:** 11
Medium-term plan **Foundation** / **Higher**
Autumn 1

Week	Module Overview	Cross-Curricular	Planning Links
1	**Pythagoras** **Trigonometric graphs**	Cross-Curricular Activity on a history of ciphers	Active Learn Foundation Higher Complete Maths platform Planning Proforma Department padlet Resources folder
2	**Trigonometry** **Transformations of trig graphs**		
3	**Multiplicative reasoning** **3D Pythagoras and trigonometry**		
4	**Compound measures** **Non-right angled trigonometry**		
5	**Plans and elevations** **Collecting data and bias**		
6	**Constructions and Loci** **Cumulative frequency diagrams**		
7	**Bearings** **Histograms**		

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Autumn 2

Week	Module Overview	Cross-Curricular	Planning Links
1	**Expanding & factorising quadratics** **Sketching graphs**		Active Learn [Foundation](#) [Higher](#) [Complete Maths platform](#) [Planning Proforma](#) [Department padlet](#) [Resources folder](#)
2	**Quadratic graphs** **Solving quadratic inequalities**		
3	**Mixed transformations** **Circle theorems**	[Cross-Curricular Activity on a history of ciphers](#)	
4	**Circles and cylinders** **Circle geometry**		
5	**Cones and spheres** **Rearranging difficult equations**		
6	**Mixed numbers** **Algebraic fractions and rationalising denominators**		
7	**Standard form** **Functions and algebraic proof**		

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Medium-term plan   **Foundation** / **Higher**

Spring 1

Week	Module Overview	Cross-Curricular	Planning Links
1	**Similarity** **Vector notation and arithmetic**	Cross-Curricular Activity on binary numbers	Active Learn Foundation Higher Complete Maths platform Planning Proforma Department padlet Resources folder
2	**Congruence** **Solving problems using vectors**		
3	**Vectors** **Non-linear graphs**		
4	**Rearranging equations** **Graph transformations**		
5	**Cubic and reciprocal graphs** **Direct proportion**		
6	**Simultaneous equations** **Inverse proportion**		

Subject: Maths

Medium-term plan

Spring 2

Year: 11

Foundation / **Higher**

Week	Module Overview	Cross-Curricular	Planning Links
1	**Revision** **Revision**		Active Learn Foundation Higher
2	**Revision** **Revision**		Complete Maths platform
3	**Revision** **Revision**	Cross-Curricular Activity on binary numbers	Planning Proforma
4	**Revision** **Revision**		Department padlet
5	**Revision** **Revision**		Resources folder
6	**Revision** **Revision**		

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Summer 1

Week	Module Overview	Cross-Curricular	Planning Links
1	**Revision** **Revision**	N/A	Active Learn Foundation Higher Complete Maths platform Planning Proforma Department padlet Resources folder
2	**Revision** **Revision**		
3	**Revision** **Revision**		
4	**Revision** **Revision**		
5	**Revision** **Revision**		
6	**Revision** **Revision**		