

	Year 11 Mathematics – Higher					
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
BIG Question Curriculum content	How can geometric modelling, and proportional reasoning help us represent real-world structures? 3D representations - Calculate volume and surface area - Use standard form - Apply compound measures - Use similarity and congruence	How can, geometric theorems and vector reasoning help us describe relationships and solve problems with precision? - Analyse sequences - Represent numbers algebraically - Apply circle theorems - Use vector methods - Construct geometric arguments	How can functional relationships and trigonometric methods help us model real-world situations? - Use construction techniques - Work with functions - Transform graphs - Apply bearings and scale drawings - Use trigonometric	Bespoke curriculum based on identified areas of improvement QLA		
10 key words	1. Isometric 2. Elevation 3. Frustum 4. Surface area 5. Standard form 6. Compound unit 7. Velocity-time graph 8. Similarity 9. Congruence 10. Scale factor	1. Sequence 2. Nth term 3. Surd 4. Counterexample 5. Circle theorem 6. Tangent 7. Vector 8. Scalar 9. Collinear 10. Geometric proof	1. Construction 2. Loci 3. Function 4. Composite 5. Inverse 6. Transformation 7. Bearing 8. Scale drawing 9. Sine rule 10. Cosine rule			
Catholic social teaching Link	Stewardship — using accurate measurement, scaling and modelling supports responsible decision-making.	Truth & Discernment analysing circle theorems, sequences encourages reasoning and pursuit of truth.	Common Good clear communication of diagrams and functions supports fairness and shared understanding.			
Careers Link	Science & Manufacturing	Computer Science & Data	Engineering & Architecture			

Ways to enrich the year 11 curriculum at home...

- What is a Googol? How can that be written in standard form? How can that be linked to a googolplex?
- Compare how maths and other subjects present similar content
- Investigate future careers and what maths qualifications you will need to pursue these careers

