(A)UTHENTIC

(P)ASSIONATE

(S)ACRED



(I)NSPIRATIONAL

(R)ESILIENT

(E)MPATHETIC

CATHOLIC VOLUNTARY ACADEMY							
Yr. 11 Maths GCSE (STEM Subject) – Curriculum Map							
Advent 1 Number and Algebra Intent: Know exact trig ratios for angles between 0 degrees and 360 degrees Solving quadratic equations (adapted to include completing the square and using the quadratic formula) Careers Surveyor	Advent 2 Number and Algebra Intent: Multiply out two brackets (adapted to 3 brackets) Simultaneous linear equations (adapted to include quadratic simultaneous equations) Careers Auditor, Accountant Budget Analyst	Disciplinary Skills Number Algebra Geometry and Measures Ratio and Proportion Probability Handling Data (Statistics) <u>Advent 1 – Assessment</u> Testing knowledge & skills of key content. <u>Advent 2 – Assessment</u> Testing knowledge & skills of key content <u>Careers (jobs which use algebra and geometry)</u> Air Traffic Controller, Nutritionist, Carpenter, Surveyor, Jeweller, Market	Lent 1 Number and Algebra Intent Solve inequalities (adapted to include quadratic inequalities and representing on a graph) Substitution into algebraic expressions (adapted to include functions, composite functions and iteration	Lent 2 Geometry and Measures Intent: Angles in polygons (adapted to include circle theorems and proof) Vector geometry Careers Interior Designer, CAD Engineer, Mathematics Teacher Plumber	Learning is revisited and retrieved through low states quizzes, Do it Now activities, formal testing. <u>Lent 1</u> Testing knowledge & skills of key content. <u>Lent 2</u> Testing knowledge & skills of key content.	Pentecost 1 Number Handling Data Intent Understand links between different shapes of graphs and their equations (adapted to include equations of circles, Equations of trig functions and their respective graphs, exponential equations, transformations of graphs) Epidemiologist Interpret information from real-life graphs such as Velocity time graphs (adapted to include rate of change, estimate of area underneath the curve)	Books https://simonsin gh.net/books/ https://www.wat erstones.com/ca tegory/science- technology- medicine/mathe matics-and- science/mathem atics Maths Clubs https://parallel.o rg.uk/ Pentecost 1 Testing knowledge & skills of key content.
CATHOLIC SOCIAL TEACHING To consider: • Solidarity when interpreting data on poverty and equality. • Steward ship when studying data on environmental issues and in your own daily life. • The Common Good in every lesson and interaction.		Research Analyst	Careers Maths Professor, Statistician, Chemist, Economist, Astronomy		athscareers.org .uk/	Careers Data Analyst Market Analyst READING 3-2-1 The importance of literacy for mathematics based on maths in the news.	Pentecost 2 Testing knowledge & skills of key content.