St. Mary's College

Form 5

Course Outline 2014-2015

Proposed date	Topic	Modules
September-October	Measurement	**Area** : 2- D shapes- triangles, quadrilaterals kite, parallelogram trapezia, rhombuses, composite shapes. Circles, sectors, arc length, segment of a circle **Surface Area**: 3-D shapes cubes, cuboid, cylinders **Volume**: cube, cuboid, pyramids, prisms,cone, sphere, composite solids, regular 3-d shapes (area of cross section × height)
November	Circle geometry	Angle geometry facts of circle Problem solving applying circle geometry facts
November-December	Relations and Functions	Using algebra to prove simple theorems Quadratic function Speed time graph, Distance time graph Graph of inequalities Exponential functions Reciprocal functions Linear programming
January-February	Transformations	Translations, enlargements, reflections, rotations, combination of transformation, locating centre of enlargements and rotations Matrix representation of transformations Use of matrices to solve problems in
March	Plans	Scale drawings Planes and elevations
March-April	Sets	Review set notation, Venn Diagrams Problem solving using Venn Diagrams including 3 sets
April-June	Review	Constructions, Number Patterns General review and examination question review