LEARNING JOURNEY – Mathematics Year 9

St Michael's Catholic School

Year 10

Angles in polygons
Angles in Triangles	Angles in quadrilaterals	Interior and exterior angles in polygons

Probability
Venn diagrams	Probability experiments	Expected outcomes

Angles in parallel lines
Alternate corresponding and co-interior angles	Solve angle problems

Transformations
Enlargement	Rotation	Translation

Algebraic manipulation
Expand single brackets	Expand double brackets

Pythagoras' Theorem
Squares and roots	Find the hypotenuse	Find a shorter side

Pentecost Term

Similarity
Enlargement	Similar triangles

Non-linear graphs
Quadratic expressions	Draw quadratic graphs

Ratio and proportion
Direct proportion and graphs	Inverse proportion and graphs	Ratio problems

Straight line graphs
Gradients and intercepts	Equations of lines

Constructions and congruence
Draw and measure angles	Construct triangles and bisectors	Congruence

Maths and money
Saving	Borrowing	Budgeting

Equations, inequalities and formulae
Solve equations and inequalities	Substitute in a formula	Change the subject of a formula

Standard form
Compare and order numbers in standard form	Calculate with numbers in standard form

Lent Term

Fractions
+ and - fractions	x and ÷ fractions

Rates
Speed, distance and time	Distance-time graphs	Rates of change

Properties of number
Prime factors	HCF and LCM

Year 9

Advent Term

Area and volume
Area of 2D shapes	Surface area	Volume

Percentages
Percentage increase and decrease	Percentage change	Interest

Department Intent : To develop students' curiosity and creativity, rich in skills and knowledge, preparing students well for everyday life and future pathways within the community