St Michael's Catholic School LEARNING JOURNEY – Mathematics Year 8 **Circles** Nth term Circumference and Circle vocabulary Perimeter and describe sequences area of a circle area of parts of circles Year **Graphs and charts** Pictograms and Pie charts Line graphs bar charts Angles in parallel lines and polygons Tables and probability Alternate, corresponding Special Angles in Probability of a single Sample space diagrams Frequency trees quadrilaterals and 2-way tables and co-interior angles polygons event **Pentecost Term** Interpret and represent data Types of data Averages and Frequency range tables Laws of indices Solve equations and Form equations and +, -, x and ÷ expressions with indices inequalities inequalities Standard form **Percentages** Numbers greater than 1 Numbers between 0 and Percentage of an Percentage increase Percentage change in standard form 1 in standard form amount and decrease Symmetry and reflection Line and rotational Reflect shapes Describe Coordinates Midpoints y = mx + csymmetry reflections Lent Term Multiply and divide fractions Area, volume and density 1 x and ÷ mixed Area of 2D Volume of cubes x and ÷ fractions Density, mass numbers shapes and cuboids and volume **Ratio** Simplify Substitution **Expand brackets** Simplify Solve problems and factorise expression Year **Advent Proportion and scale** Term Direct proportion Conversions and Similar shapes Scale and maps and graphs graphs

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