

	<b>Programme of study</b>		
<b>Year 7</b>	<b>Unit titles</b>	<b>Learning Objectives</b>	<b>Assessment</b>
<b>Autumn term 1</b>  Sept - Oct	<b>Statistics</b>	Compare two distributions using mean, mode, median and range.	Sacred Heart Project  Setting tests.
	<b>Lines &amp; Angles</b>	Angles in parallel lines, around a point, in a triangle and the associated vocabulary.	
<b>Autumn term 2</b>  Oct – Dec	<b>Written calculations</b>	Significant figures; multiplying and dividing decimals.	Assessment and review.
	<b>Expressions &amp; Formulae</b>	Simplifying expressions, multiplying out brackets; substitution.	
	<b>Measures &amp; Area</b>	Converting between metric units; solve problems involving length, area and volume.	
	<b>Number work</b>	Rounding; order of operations; using directed numbers.	
<b>Spring term 1</b>  Jan-Feb	<b>Fractions</b>	All operations on mixed and improper fractions; equivalent fractions; cancelling; converting between fractions and decimals.	Half-term assessment and review
	<b>Equations</b>	Forming and solving equations including with brackets and unknowns on both sides; changing the subject.	
	<b>Coordinates &amp; transformations</b>	Familiarity with all four quadrants of the coordinate plane; symmetry; reflection, rotation, translation and enlargement	
<b>Spring term 2</b>  Feb – March	<b>Special numbers</b>	Prime numbers, factor trees, HCF and LCM, indices, divisibility tests.	Assessment and review.
	<b>Fractions, Decimals &amp; Percentages</b>	Converting between fractions, decimals and percentages; calculating percentages mentally and with a calculator.	
	<b>Probability</b>	Probability scale, calculating probability; understanding experimental and theoretical probability	
<b>Summer term 1</b>  April – May	<b>Sequences and Functions</b>	Describe special sequences eg: square numbers, Fibonacci sequence; find missing values; find the nth term.	End of Year exams
	<b>Graphs</b>	Plot graphs from a relationship; generate coordinate pairs; draw graphs of real-life situations; recognise the relationship of a straight line graph.	
<b>Summer term 2</b>  June – July	<b>Surveys, interpreting graphs and comparing data</b>	Collect, organise and display sets of data; draw and interpret pie charts, bar charts and graphs.	Assessment and review.
	<b>Ratio and Proportion</b>	Understand the relationship between ratio and proportion; reduce a ratio to its simplest terms; divide a quantity into a given ratio.	

	<b>Shapes &amp; Construction with 3D</b>	Know the nets of simple 3D shapes; know which solids are prisms; relationship between faces, vertices and edges; calculate the surface area and volume of cuboids.	
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