Curriculum Intent for Mathematics at Blessed Robert Sutton Catholic Voluntary Academy

	Overall Aim of Mathematics
	The mathematics department is committed to ensure that our young learners are not only successful at Blessed
	Robert Sutton Catholic voluntary academy, but also thoroughly equipped to prosper in future academic opportunities
	and employment.
	Our curriculum is designed to promote:
	Confidence, resilience and fluency in mathematical knowledge
	Develop mathematical skills to solve contextual problems
	 Develop reason and understanding to tackle problems in a methodological manner
	Opportunities to work independently and in collaboration with others
	An enthusiasm for mathematics and related careers
	Mathematics will teach spiritual development by supporting students to make sense of the world around them and explore connections between their numeracy skills and every-day life.
	Mathematics will teach social excellence through a range of teaching strategies that allow pupils to work effectively
	as a community. Class discussions and opportunities to explore different approaches to a problem will develop pupils' abilities to work effectively as a team- communicating, respecting, listening and developing each other's ideas.
	Mathematics will teach academic excellence by developing the ability to think creatively, act independently, and with
	the resilience required to solve problems. Teaching is aimed at developing a strong conceptual understanding of the underpinning principles of mathematics. These principles are built upon through the consolidation of key topics, with
	constant extension for the students that require it. We aim to build confidence and enjoyment of the subject for
	future learning, whilst providing constant challenge that will stretch even the sharpest minds. To ensure students are able to link their studies to the real world, topics are connected with additional material designed to broaden interest
	and demonstrate applied mathematics in real life.
Enrichmer	nt opportunities in this subject include:
	KMT-KS3 and KS4 he study of 'Further Mathematics' at KS4 for selected students
	eveloping an appreciation of some aspect of budgeting and finance
• C	ode breaking

Key Stage 3 Course description

Year 7 _____

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
		A	lgebraic	Thinkin	ng	Place Value and Proportion						
Autumn	Sequences		100000000000000000000000000000000000000		use Equality and raic equivalence		Place value and ordering integers and decimals		Fraction, decimal and percentage equivalence			
		Арр	lication	s of Nun	nber		Directed Number			Fractional Thinking		
Spring	prob with ad	ving lems ddition raction	with	ng prob multiplic nd divisio	ation	Fractions & percentages of amounts	Four operations with directed number			Addition and subtraction of fractions		
		l	ines an	d Angle:	s		Reasoning with Number					
Summer	Constructing, measuring and using geometric notation				Developing number sense probability				numbe	me ers and pof		

Year 8

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
			Pro	portiona	l Reaso	ning	Representations							
Autimo	AUTUMN	Ratio and scale			licative nge	Multiplying and dividing fractions		Working in the Cartesian plane		Representing data		Tables & Probability		
			Al	gebraic	techniqu	Jes	Developing Number							
Coring	Bunde	Brad		uations alities	and	Sequences	Indices		ions and Standard entages index form			Number sense		
		Developing Geometry							Reasoning with Data					
Summer	Summer		es in el lines Ilygons	trapez	a of ia and cles	-	ne netry lection	The	The data handling cycle				ures of Ition	

-	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
		Rea	soning v	vith Algo	ebra	Constructing in 2 and 3 Dimensions							
Autumn	Straight line graphs		solv	Forming and Solving conjectures		U	Three dimensional shapes			Constructions and Congruency			
	Reasoning with Number							Reas	oning w	ith Geon	netry		
Spring	Numbers		Numbers Using Ma percentages m				Deduction Rotation and translation				Pytha Theo	goras' prem	
		Reas	oning wi	th Prop	ortion		Representations						
Summer	Enlargement Solving ratio and କ୍ର and similarity proportion problems ድ					Solving problems using graphs, tables and algebra					s and		

Assessments

Students will be assessed regularly using exit tickets. At the end of each unit, there will be a short test to check understanding. Formal assessments will take place three times each year in line with the whole school assessment policy.

Ways to help my child succeed- Useful websites

https://timestable.pixl.org.uk/Timestables.html

https://www.mymaths.co.uk/

https://vle.mathswatch.co.uk/vle/

Key Stage 4

At Blessed Robert Sutton, we deliver the OCR 9-1 Mathematics GCSE. There are two tiers of entry and all examinations take place at the end of year 11.

NC Subject Content Area	Strands
Number	 Number: Understand and represent number Number: Calculations Number: Understand fractions and decimals Number: Percentages
Algebra	 Algebra: Understand Notation and Substitute Algebra: Equivalence and Proof Algebra: Solve Equations and Inequalities Algebra: Linear Graphs Algebra: Non-linear Graphs Algebra: Sequences
Ratio, proportion and rates of change	 Ratio, Proportion, Rates of Change: Multiplicative Relationships Ratio, Proportion, Rates of Change: Ratio & Rates
Geometry and measures	 Geometry and Measures: Perimeter, Area and Volume Geometry and Measures: Construct and Transform Geometric Figures Geometry and Measures: Shape properties Geometry and Measures: Angles Geometry and Measures: Pythagoras and Trigonometry Geometry : Geometrical Proof
Probability	• Probability
Statistics	 Statistics: Represent and Interpret Data Statistics: Statistical Measures Statistics: Bivariate Data

Past papers and revision materials

https://corbettmaths.com/2019/04/01/gcse-practice-papers/

https://corbettmaths.com/2017/09/14/legacy-gcse-a-g-practice-papers/

https://keshgcsemaths.wordpress.com/foundation-papers-1-2/

https://keshgcsemaths.wordpress.com/higher-papers-1-2/

Assessments

A small assessment will take place after each unit of work. Formal summative assessments will take place termly in line with the whole school assessment policy. The final exam consists of three papers, each being 1 hour 30 minutes.

Ways to help my child succeed- Useful websites

https://mathsapp.pixl.org.uk/

https://www.mymaths.co.uk/

https://vle.mathswatch.co.uk/vle/

https://mathsmadeeasy.co.uk/gcse-maths-revision/

https://mathsgenie.co.uk/gcse.html