Curriculum Aim – MATHS

The aim of Maths education at St Johns is for all students to develop and retain key mathematical skills to facilitate confident participation within and beyond their educational setting.	**KS3 Intent** • To develop the ability to use mathematical skills in all areas of the curriculum and those necessary to confidently cope with the demands of further education, employment and adult life • to encourage students to increase their understanding and enjoyment of mathematics • to provide students with the skills which will empower them to explore mathematics independently, with the courage to take risks and learn from their mistakes • students will be encouraged to discuss mathematical ideas confidently using correct vocabulary and terminology • to share ideas • develop intelligent curiosity/deductive reasoning/independent exploration • Consolidate and stretch knowledge by using a mastery approach in year 7 which deepens an understanding of the core mathematical principles (number skills, statistics, basic algebra, line and angle geometry)
	KS4 Intent (Edexcel (yr 11)/AQA (yr 10)) • Introduce students to each of the six core areas of GCSE (number, algebra, probability, statistics, ratio, proportion and rates of change) • To challenge the gifted mathematicians by completing Level 2 Further Maths (AQA) • Develop skills to link maths to life after and outside school • To foster/harness aspirations and fuel ambitions to continue with maths study post GCSE, encouraging equal representations (no gender bias)
	KS5 Intent (AQA) • Enhance breadth and depth of mathematical knowledge covering pure maths, mechanics and statistics with a deeper emphasis on developing and assessing reasoning, problem solving skills and modelling. • Prepare students for maths-based further education or training. • Provide the opportunity to study maths which has links with other A Level subjects by offering Maths Studies.

Curriculum Implementation	Curriculum documents – on school website In years 7 & 8 students have 6 hours of maths a fortnight. In year 9 students have 7 hours of maths a fortnight In years 10 & 11 students have 8 hours of maths a fortnight. In years 12 & 13 students have 9 hours of maths a fortnight Extra-curricular There are 4 year 6 gifted and talented days per year. We run the Junior Maths Challenge, Intermediate Maths Challenge and Senior Maths Challenge as well as the Maths Olympiad for girls. Students enter team maths challenges at other schools Year 8 trip to Bletchley park Open evenings - yr 6 and 11 and year 11 revision evening
Curriculum Impact	Assessed through: • Student outcomes • Learning walks and observations • Work scrutiny • Termly data analysis through Alps connect and Sisra • Department/HOF meeting minutes • KS5 uptake • Extra curricular attendance • SEN/PP tracking data • Summative/Formative assessment **Strong Impact** if: • Excellent outcomes at KS4/5 (results) • Post 16 pathways in maths are successful • Excellent behaviour in lessons and attitude to learning • Students take pride in their work, presenting it to a high standard • All students accessing curriculum (differentiation)