

Curriculum Overview – Maths

All Saints' Curriculum Intent Statement:

Pupils at All Saints have access to a world class curriculum – one which is broad, balanced, challenging and gives pupils a better chance of success than any other curriculum in the country.

Subject Curriculum Intent Statement:

Our curriculum intends to create confident mathematicians and creative problem solvers.

Confident mathematicians have high levels of fluency in maths and are able to recall facts, formulas and vocabulary. They can demonstrate a depth of knowledge and understanding of topics.

Creative problem solvers are able to apply their key facts and knowledge to tackle more challenging questions and have a variety of strategies they are able to use.

We are an ambitious and inclusive Maths department. We believe that every student has the capacity to succeed and reach their full potential. We reject the idea that some pupils "just can't do maths". We believe that through hard work all pupils can improve their understanding and be successful. We promote the idea of a growth mind-set to every student and help develop independence through our tailored homework package.

Through our core values of Love, Bravery and Legacy we are committed to equipping students with the life skills and confidence needed for their future. Our aim is to support students to develop a long term, secure and adaptable understanding of mathematics. This is achieved through developing their fluency, mathematical reasoning and ability to solve problems in unison.

In order to achieve this, we have introduced a spiral scheme of learning from Year 7-11 which provides full coverage of the National Curriculum and beyond, building knowledge over time. It is sequences using interleaving that ensure students:

- Are presented with consistent methods and key layouts to aid understanding and reduce cognitive load.
- Are always equipped with the prerequisite knowledge required to effectively approach new problems.
- Are constantly provided with opportunities to recall, retrieval and interweave their knowledge and skills.

Following a spiral curriculum enables pupils to master concepts and ideas, revisiting topics to ensure that a greater depth of knowledge is gained. Students who grasp concepts rapidly progress through rich and challenging tasks within the same narrow focus before acceleration through new content is considered. Those who are not sufficiently fluent consolidate their understanding before moving on.

Each lesson begins with a review of previous learning, of varying recency, designed to strengthen recall and develop well-connected mathematical knowledge.

Students are regularly assessed through no and low stakes quizzes and feedback is provided promptly to allow effective re-teaching and ensure that every student knows where to improve.

23/24 – Year 7 - 9 Ted Wragg Trust’s Mastery SoW

- Y10 continuing with Sparx SOW
- Year 11 have a bespoke curriculum responding to and accelerating current knowledge and preparing for GCSEs.

Please note, all subject overviews may change based on the needs of pupils in each year group. This is indicative content only.

	Cycle 1	Cycle 2	Cycle 3
	Number & Algebra	Number, Algebra & Ratio	Geometry & Data Handling
	Big ideas: Factors and Multiples Place Value and Rounding Mental and Written Methods Negative Numbers Time Algebraic Notation Algebraic Manipulation (inc. Single Brackets) Patterns and Sequences	Big ideas: Fractions Percentage of Amounts Solving Linear Equations Fraction Calculations Simplify and Share Applications	Big ideas: Properties of a lines, Angles and 2D Shapes Angles 2D Shapes – Area and Perimeter Averages and Spread (raw data) Tally Charts, Bar Charts, Pictograms, Stem and Leaf Probability
	Assessment: Mini Mock	Assessment: Mini Mock	Assessment: Mini Mock
	Cycle 4	Cycle 5	Cycle 6
	Number & Algebra	Number, Algebra & Ratio	Geometry & Data Handling

<p>Big Ideas: HCF & LCM, Estimation, Operations with decimals, Mental and Written Methods, Negative Numbers, Reading Timetables, Coordinates and graphs, Algebraic manipulation, Linear Sequences</p>	<p>Big Ideas: Roots, Indices & Surds, Operations with fractions, Percentage multipliers, Solving equations with variables on both sides, Inequalities, Ratio, Proportion and Scale, Compound Measures</p>	<p>Interior and exterior angles, Parallel Lines, Circles, Area and Perimeter, Volume and Surface area, Averages, Scatter Graphs and Pie Charts, Probability</p>
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	Assessment: Mini Mock	Assessment: Mini Mock	Assessment: Mini Mock
	Cycle 7	Cycle 8	Cycle 9
	Number & Algebra	Number, Algebra & Ratio	Geometry & Data Handling
	HCF and LCM Problems, Upper and Lower bounds, Laws of indices (negative and fractional), Standard Form, Straight line graphs, Quadratic expressions, Quadratic sequences	Fractions and Surds, Percentages, Rearranging Formulae, Plotting regions with inequalities, Combining ratios, Direct and inverse proportions, Compound measures	Constructions, Pythagoras and Trigonometry, Transformation, Averages from frequency tables, Tree Diagrams and Venn Diagrams
	Assessment: Mini Mock	Assessment: Mini Mock	Assessment: Mini Mock
	Cycle 10 - Foundation	Cycle 11 - Foundation	Cycle 12 - Foundation
	Number, Algebra, Ratio, Probability	Ratio, Geometry, Algebra	Number, Geometry, Ratio

	Big Ideas: Indices Standard Form Factors & Multiples Solving Equations Inequalities Substitution Changing the subject Ratio Bearings Direct Proportion Venn Diagrams Tree Diagrams	Big ideas: Converting units of Area and Volume Compound Measures Real Life Graphs Vectors Transformations Congruence Similar Shapes Algebraic Manipulations Quadratics Algebraic Fractions	Big ideas: Converting between FDP Percentages Growth and Decay Circles Volume Surface Area Direct and Inverse Proportion
	Assessment: Mini Mock	Assessment: Mini Mock	Assessment: Mini Mock
	Cycle 10 - Higher	Cycle 11 - Higher	Cycle 12 - Higher
	Algebra and Statistics	Geometry and Number	Ratio and Proportion
	Quadratics - Factorising and Solving, Completing the square, Algebraic Fractions, Inequalities, Iterations Averages from a table (grouped data), Cumulative frequency graphs, Histograms, Scatter Graphs, Stem and leaf diagrams	Pythagoras, Advanced Trigonometry, Area and Perimeter - Problem solving, Circles, Vectors Fractions, Recurring decimals, Percentages,	Growth and Decay, Combining ratio, Ratio and Algebra, Direct and Inverse proportion, Compound Measures

	Assessment: Mini-Mock	Assessment: Mini-Mock	Assessment: Mock Assessment
	Cycle 13	Cycle 14	
	Examination Prep – Prevention & Acceleration	Examination Prep – Prevention & Acceleration	
	Big ideas: All	Big ideas: All	
	Assessment: Mock Assessments	Assessment: Mock Assessments	