

All Saints' Academy Mathematics KS3 Curriculum

Cycle	7			8			9		
	Knowledge & Skills	Enrichment	Cross-Curricular	Knowledge & Skills	Enrichment	Cross-Curricular	Knowledge & Skills	Enrichment	Cross-Curricular
1	<p>Number Positive and Negative Integers; Place Value</p> <p>Algebra Simplifying and collecting terms; Simple equations</p> <p><i>End of Module Assessment</i></p>	<p>Fortnightly Number Challenge</p>	<p>Physics: Finding Potential Difference, Current and Resistance by rearranging $V=IR$</p>	<p>Number Factors & Multiples; Rounding & Estimation; Error Intervals; Percentage increase/decrease.</p> <p>Ratio Dividing ratio into parts; Scale factors & scale diagrams; Speed – distance – time.</p> <p><i>End of Module Assessment</i></p>	<p>Smoothies Project</p>	<p>LIFE Programme: Estimate the cost of a typical weekly shop by rounding to nearest pound</p> <p>Physics: Share the potential difference across two resistors in a series circuit</p>	<p>Algebra Factorising; Expanding double brackets; Rearranging formulae; Linear, quadratic, reciprocal and exponential graphs; Graphical solution of straight line equations; Geometric Sequences.</p> <p><i>End of Module Assessment</i></p>	<p>Frogs Project</p>	<p>PE: Look at the flight of a ball as a quadratic parabolic shape</p> <p>Art: Look at Art which can be generated by various number sequences</p>
Careers	Accountancy Jobs			Architecture			Data Scientist		
2	<p>Number Equivalence of fractions; Four operations on fractions; Percentages and FDP, simple percentage increase.</p> <p>Statistics Line and bar charts; Averages.</p> <p><i>End of Module Test Assessment</i></p>	<p>Showersave Project</p>	<p>Geography: Use examples of populations and demographic to consider bar charts</p>	<p>Algebra Substitution into formulae and expressions; Multiplying over a single bracket; Solving linear equations; Plotting and sketching linear functions; $y = mx + c$; Sequences and nth term.</p> <p><i>End of Module Test Assessment</i></p>	<p>Algebra Challenge</p>	<p>Physics: Look at the straight-line graph for Hook's Law</p>	<p>Geometry Line segments; Constructions; Volume and surface area of prisms, cylinders and composite solids Transformations; Similar & Congruent triangles; Pythagoras' Theorem; Euler's Formula and Solid shapes.</p> <p><i>End of Module Test Assessment</i></p>	<p>UKMT Intermediate Maths Challenge</p>	<p>DT: Look at the strength of triangles. Technical drawing aspects of mathematical constructions</p>
Careers	Financial Advisor			Research Scientist			Carpentry		

3	<p>Geometry Types of angle, angles in parallel lines & triangles; Transformations - translation, reflection, rotation; Symmetry & Congruence; Perimeter & Area.</p> <p><i>End of Module Test Assessment</i></p>	<p>UKMT Junior Maths Challenge</p>	<p>Business Studies: Look at use of farming space and profit and expenditure</p>	<p>Geometry Quadrilaterals; Polygons and angles; Area and perimeter of quadrilaterals; Circumference & Area of Circles</p> <p>Statistics Pie charts; Scatter graphs.</p> <p><i>End of Module Test Assessment</i></p>	<p>UKMT Junior Maths Challenge</p>	<p>Geography/ Physics: Circumference and radius of Earth and other planets</p> <p>Business Studies/ Geography: Look at % spend of GDP by Government</p>	<p>Probability Simple probability and experiments; Sum of outcomes; Sample space diagrams; Venn diagrams.</p> <p>Statistics Discrete, continuous and grouped data; Measures of Central Tendency.</p> <p><i>End of Module Test Assessment</i></p>		<p>LIFE Programme: Look at simple probabilities of gambling</p> <p>English: Text Analysis comparison of similar texts</p>
Careers	Computer Games Designer			Animator			Actuary		