CHRIST'S COLLEGE, SUNDERLAND
Emmanuel Schools Foundation

Mathematics Curriculum Overview

	Autumn 1 *Sep-Oct*	Autumn 2 *Nov-Dec*	Spring 1 *Jan-Feb*	Spring 2 *Feb-Mar*	Summer 1 *Apr-May*	Summer 2 *Jun-Jul*
Reception	Counting to 10 Number composition to 5 Narrating the pattern of the day	Counting to 10 Number composition to 5 Narrating the pattern of the day Positional language- 3D shapes Measure Substituting Linear patterns	Counting to 10 Number composition to 5 Narrating the pattern of the day Positional language- 3D shapes Measure	Counting to 20 Number composition to 10 Narrating the pattern of the week Number bonds to 5 2D shapes Measure Substituting to 5	Counting to 20 Number composition to 10 Narrating the pattern of the week Doubles 2D and 3D shapes Measure	Counting 100 Doubles/Halves Number bonds to 10 2D and 3D shapes Measure Complex linear patterns
Year 1	Number and Place Value (within 10) Addition and subtraction (within 10)	Addition and subtraction (within 10) Number and Place Value (within 20) Geometry – Properties of Shape	Addition and subtraction (within 20) Number and Place Value (within 50)	Measurement – heights/weight/volume/capacity Geometry – position and direction	Multiplication and Division Fractions	Number and Place Value (within 100) Measurement – money Measurement - time
Year 2	Number and Place Value (within 100) Addition and subtraction (within 100)	Addition and subtraction (within 100) Measurement – money (including addition and subtraction) Multiplication and division (2x,5x, 10x)	Multiplication and Division Fractions	Measurement – length and height Geometry – properties of shape	Geometry – position and direction Measurement – mass/capacity/temperature	Measurement – time Statistics
Year 3	Number and Place Value (within 1000) Addition and subtraction (within 1000)	Addition and subtraction (within 1000) Multiplication and division (3x,4x, 8x)	Multiplication and Division Fractions	Fractions Geometry – properties of shape Measurement – money	Measurement – length and perimeter Measurement – mass and capacity	Measurement – time Statistics
Year 4	Number and Place Value (within 10,000) Addition and subtraction (within 10,000)	Multiplication and division (6x,7x, 9x,11x, 12x)	Measurement – money Fractions and Decimals	Fractions and Decimals	Measurement – length, perimeter and area Geometry – position and direction	Geometry – properties of shape Measurement – time Statistics
Year 5	Number and Place Value (within 1,000,000) Addition and subtraction (above 4 digits)	Multiplication and division	Fractions	Decimals and Percentages	Measurement – perimeter, area, volume Geometry – properties of shape	Geometry – position and direction Measurement – converting units Statistics

Year 6	Number and Place Value (within 10,000,000) Addition and subtraction (whole numbers and problems) Multiplication and division	Multiplication and division Fractions and decimals	Decimals and percentages Algebra	Ratio Measurement – converting units Measurement – perimeter, area and volume	Geometry – position and direction Geometry – properties of shape	Statistics Investigations
Year 7	Sequences Algebraic notation and substitution Expressions and equations	Place value, ordering and rounding Four operations Averages and range Rounding and estimation	Graphing data Fractions, decimals, and percentages	Directed number Fractions and percentages of amounts Perimeter and area	Speed, distance, and time Properties of number	Add and subtract fractions Angles and polygons
Year 8	Ratio Proportion and scale Algebraic manipulation	Coordinates and graphs Multiply and divide fractions Symmetry and reflection	Area, volume, and density Equations and inequalities Percentages	Indices Standard form Interpret and represent data	Angles in parallel lines and polygons Tables and probability	Circles Graphs and charts Sequences
Year 9	Straight line graphs Forming and solving equations Testing conjectures	Three-dimensional shapes Constructions and congruency	Numbers Using percentages Maths and money	Deduction Rotation and translation Pythagoras' theorem	Enlargement and similarity Solving ratio and proportion problems Rates	Probability Algebraic representation Revision
Year 10	Algebraic manipulation Equations, inequalities, and formulae Quadratic expressions and equations	Percentages Ratio and scale Work with fractions	Non-calculator methods Straight line graphs Probability	Rounding and estimation Perimeter, area, and volume Interpret and represent data Non-linear graphs	Angles Graphs and diagrams Vectors	Factors and powers Pythagoras' theorem and trigonometry Simultaneous equations
Year 11	Gradients and lines Non-linear graphs Using graphs	Expanding and factorising Changing the subject Functions	Multiplication reasoning Geometric reasoning Algebraic Reasoning	Transforming and constructing Listing and describing Show that	Revision and Exams	Revision and Exams