



	Essential concepts and skills to be taught. See notes below and links to additional documentation.	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Knowledge progression across subjects in the year group – see notes below for whole school overview documents.	Progression of knowledge and skills across year groups. (see progression mapping documents links on page 2 below).
R	Knowledge and skills:  Reception-Scheme-Guidance-for-Teach	Unit 1 Getting to Know You Times of the day, routine, locating things, position and direction. Unit 2 Just Like Me Match, sort and compare amounts. Compare size and capacity, explore pattern.	Unit 3 It's Me 1,2,3 Representing, comparing and composition of numbers. Circles, triangles and positional language. Unit 4 Light and Dark Representing numbers to 5. One more, one less. Shapes with 4 sides. Initial understanding of time. Autumn Assessment	Unit 5 Alive in 5 Introducing zero, comparing numbers up to 5, composition of 4 and 5. Comparing mass and capacity. Unit 6 Growing 6, 7, 8 Combining two amounts, making pairs, length and height, continuing time.	Unit 7 Building 9 and 10 Comparing numbers to ten, bonds to 10. 3D shapes, spatial awareness and patterns. Spring Assessment	Unit 8 To 20 and beyond Building numbers beyond 10, counting beyond 10. Spatial awareness, match, rotate and manipulate. Unit 9 First then and now Adding more, taking away, Spatial reasoning, compose and decompose.	Unit 10 Find my pattern Doubling, sharing, grouping, odd and even. Spatial reasoning, visualise and build. Unit 11 On the Move Deeper understanding of patterns and relationships, spatial reasoning and mapping. Summer Assessment	 EYFS maths expectations.pdf	 EYFS_framework_-_March_2021.pdf
1	Knowledge and skills:  Y1 Autumn SOL.pdf  Y1 Spring SOL.pdf  Year 1 Summer SOL.pdf	Unit 1 Place Value Sort, count and order objects. Represent objects. Recognise numbers as words, count on from any number, recognise one more, one less. Understand terms such as greater, less than and equal to. Compare groups by matching and order numbers. Position numbers on a number line.	Unit 2 Addition and Subtraction Introduce parts and wholes/ part whole models. Add within 10, find fact families and write number sentences. Number bonds to ten. Add more, total. Subtract 1 or 2, subtract from a whole, take away, cross out, subtract on a number line. Autumn Assessment	Unit 3 Place Value within 20 Understand each number up to 20, 1 more 1 less, Use number lines to 20, estimate, compare, order numbers to 20. Unit 4 Addition and Subtraction within 20 Using number bonds to 20, doubles and near doubles, counting back, finding difference, related facts, missing number problems.	Unit 5 Place Value within 50 Count from 20 – 50, groups of 10, partition 10s and 1s. Number line to 50, estimating and 1 more 1 less. Spring Assessment	Unit 6 Length and height Measure length in cm, compare lengths and heights, measure using objects.	Unit 7 Mass and Volume Heavier and lighter, compare mass, measure mass, full and empty, compare volume, measure and compare capacity. Summer Assessment	 Year 1 maths expectations.pdf	Progression from YR  Maths_guidance_year_1.pdf



2	Knowledge and skills:  Y2 Autumn SOL.pdf  Y2 Spring SOL.pdf  Year 2 Summer SOL.pdf	Unit 1 Place Value Count objects to 100, making tens and ones, place value charts, partitioning to 100, write numbers to 100 in words, count in 10s and 1s on a number line, compare objects and numbers and order them, count in 2, 5, 10s, count in 3. Unit 2 Addition and Subtraction Bonds to 10, 20, 100 and related facts. Add and subtract 1s. Add my making 10, add three 1 digit numbers. Add to and across 10. Subtract across 10 and from a 10. Subtract 1, 2 digit numbers crossing 10.	Unit 2 continued: Find 10 more or less, add and subtract 2 digit numbers, mixed addition and subtraction with missing number problems. Unit 3 Shape Recognise 2D and 3D shapes, find faces, edges, vertices. Find symmetry in shapes. Draw lines of symmetry. Sort 2D and 3D shapes, find patterns in shapes. Autumn Assessment SAT REVISION	Unit 4 Money Count money in pounds and pence, make the same amount, compare amounts, calculate with money, make a pound, find change, solve two step problems. Unit 5 Multiplication and division Recognise groups, add groups, understand x symbol and solve x sentences. Use arrays and grouping by sharing. Understand 2 x tables and divide by 2, 2, and 10 times tables and matching division facts.	Unit 6 Length and height Measure in centimetres and metres, compare and order lengths and heights. Unit 7 Measure, Mass and Temperature Compare mass and measure in grams and kilograms. Four operations with mass, compare volume and capacity, measure in ml and L, solve problems with volume and capacity. Spring Assessment	Unit 8 Fractions Parts and whole, finding equal and unequal parts, recognise $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$ find a whole, understand unit fractions and non unit fractions. Unit 9 Time Understand O'clock, quarter past and quarter to, tell the time past and to the hour to nearest 5 minutes. Know time facts e.g. hours in the day.	Unit 10 Statistics Make tally charts and tables, block diagrams. Understand pictograms, draw pictograms and interpret them. Unit 11 Position and Direction: Describe movements, position and turns, understand shape patterns with turns. Summer Assessment	 Year 2 maths expectations.pdf  Maths_guidance_year_2.pdf	Progression from Y1  Maths_guidance_year_3.pdf
3	Knowledge and skills:  Y3 Autumn SOL.pdf  Y3 Spring SOLv2.pdf  Year 3 Summer SOL.pdf	Unit 1 Place Value Represent numbers to 100 and 1000, partition numbers to 100 and 1000, write 1000 in words and figures, find 1, 10 and 100 more or less, number lines to 1000, compare and order numbers to 1000. Begin Unit 2 Add and subtract 1, 10, 100 from any number, spot patterns. Add and subtract across 10 and 100.	Unit 2 Addition and Subtraction Cont. add and subtract 2 and 3 digit numbers with and without exchange. Estimate numbers, use the inverse. Unit 3 Multiplication and Division Part 1: Use groups and arrays, find multiples and division of 2,3,4,5,8 and 10. Autumn Assessment	Unit 4 Multiplication and Division Part 2 Multiples of 10, reasoning about multiplication, 2 digit by 1 digit with and without exchange, division of 2 digits by one with and without exchange, introduction to bus stop method. Unit 5 Length and Perimeter Measure in mm, cm, m. Find equivalent lengths, compare, add, subtract and order lengths. Find, calculate and measure perimeter.	Unit 6 Fractions Part 1 Understand denominators, unit and non unit fractions, finding wholes, fractions on a number line, reading scales, finding equivalents. Unit 7 Mass and Capacity Measure in grams and kilograms, compare mass, use scales, measure capacity and volume in ml and L, add and subtract	Unit 8 Fractions Part 2 Add and subtract fractions, find unit and non unit fractions of amounts, reason about fractions. Unit 9 Money Find pounds and pence, convert between amounts, add and subtract money, find change.	Unit 10 Time Roman numerals to 20, time to nearest minute, digital clocks, am and a pm, years, months, days, hours. Unit 11 Shape Right angles and comparing angles, horizontal and vertical, parallel and perpendicular, 2 D shapes, polygons, properties of 3D shapes, making 3D shapes. Unit 12 Statistics	 Year 3 maths expectations.pdf  Maths_guidance_year_3.pdf	Progression from Y2  Maths_guidance_year_3.pdf



					capacity and volume. Spring Assessment		Interpret pictograms, draw pictograms and bar charts, collect and represent data, understand two way tables. Summer Assessment		
4	Knowledge and skills:  Autumn SOI Year 4.pdf  Year-4-Full-Spring-Term.pdf  Year-4-Full-Summer-Term.pdf	Unit 1 Place Value Number lines to 1000, counting in 1000s, rounding to 10, 100 and 1000. Numbers up to 10000, recognising 1000s, 100s, 10s and 1s. 1000 more or less, order numbers, count in 25s, negative numbers. Unit 2 Addition and Subtraction Add and subtract 3 and 4 digit numbers with and without exchange, estimate answers and develop formal column methods. Find methods of checking using inverse.	Unit 3 Length and Perimeter Find lengths in mm, cm and m, understand km. Add and subtract lengths, find perimeter on a grid and rectangle. Find perimeter of rectilinear shapes. Unit 4 Multiplication and Division Part 1 Recap knowledge of tables from Year 3. Learn tables up to 12 x 12 (for MTC in Spring) with focus on 6,7,8 and 9. Multiply and divide by 1, 0, 10 and 100. Autumn Assessment	Unit 5 Multiplication and Division part 2 11 and 12 times tables, factor pairs, column multiplication and bus stop division, divide 2, 3 digits by 1 digit. Unit 6 Area Understand area by counting squares, making shapes and finding missing lengths, compare area.	Unit 7 Fractions: Find equivalent fractions greater than one, count in fractions, add and subtract fractions smaller and greater than one. Unit 8 Decimals Part 1 Tenths and hundredths, placing tenths on a number line. Divide 1 and 2 digits by 10 and 100. Writing hundredths as decimals Spring Assessment	Unit 9 Decimals Part 2 Making wholes, writing decimals to 2dp, compare and order decimals, round to the nearest whole, halves and quarters as decimals. Unit 10 Money Converting pounds and pence, ordering money, giving change, solving money problems with our operations. Unit 11 Time Recap of time to nearest minute, 24 hour clock conversions from digital, problems involving years, months, days, weeks.	Unit 12 Statistics Interpret charts and graphs, find comparison, sum and difference, introduce line graphs. Unit 13 Angles Identify and name angles, compare and order angles, recognise and describe 2D shapes, understand types of triangles and quadrilaterals. Find lines of symmetry and complete symmetrical patterns. Unit 14 Position and Direction Describe position using co-ordinates, translate shapes on a grid. Summer Assessment	 Year 4 maths expectations.pdf	Progression from Y3  Maths_guidance_year_4.pdf
5	Knowledge and skills:  Year-5-Full-Autumn-Term-.pdf  Year-5-Full-Spring-Term.pdf	Unit 1 Place Value Numbers to 10000, rounding to 10, 100, 1000, 10000, 100000 and 1 million. Compare and order numbers to 100000, numbers to 1 million. Counting in 10s, 100s, 1000s, 10000, 100000s, negative numbers and	Unit 3 Statistics Read and interpret line graphs, draw line graphs and solve related problems. Read and interpret two way tables and time tables. Unit 4 Multiplication and Division Part 1	Unit 6 Multiplication and Division Part 2 Multiply 4 digits by 1 digit, 2 digits by 2 digits, 3 digits by 2 digits, 4 digits by 2 digits using column methods. Divide 3, 4 digits by 1 digit, divide with remainders, understand rounding after division.	Fractions Cont: Add 3 or more fractions, add and subtract mixed fractions, multiply unit/non-unit fractions by integers, calculate fractions of quantities. Solve fraction related problems.	Unit 9 Decimals Adding and subtracting decimals within 1, complements to 1, adding decimals and crossing the whole, adding and subtracting decimals with 2dp, 3dp. Decimal sequences, multiplying and	Unit 11 Position and Direction Position in the first quadrant, translate in two directions, translate with coordinates, identify lines of symmetry and reflections, reflect with coordinates. Summer Assessment	 Year 5 maths expectations.pdf	Progression from Y4  Maths_guidance_year_5.pdf



	 Year-5-Full-Summer-Term.pdf	Roman numerals to 1000s Unit 2 Addition and Subtraction Add and subtract whole numbers in columns with more than 4 digits, add/subtract with one and multiple exchanges, round to estimate and approximate. Use inverse operations for addition and subtraction.	Understand multiples, factors and common factors, recognise prime, square and cubed numbers. Multiply by 10, 100 and 1000. Divide by 10, 100 and 1000. Unit 5 Perimeter and Area Measure perimeters in cm and m. Find perimeters of shapes. Calculate area and perimeter of rectangles and compound shapes. Find the area of irregular shapes. Autumn Assessment	Unit 7 Fractions Equivalent fractions, improper to mixed numbers and vice versa, number sequences. Compare and order fractions less than/greater than 1.	Unit 8 Decimals and Percentages Decimals up to 2dp, decimals as fractions, understanding thousandths as fractions and decimals, rounding decimals to whole numbers, order and compare decimals, Fraction, decimal and percentages equivalents. Spring Assessment	dividing decimals by 10, 100 and 1000. Unit 10 Properties of Shape Measure angles in degrees, use a protractor, draw lines and angles accurately, calculate angles on a line and around a point. Understand regular and irregular polygons, reason about 3D shapes.	Summer Assessment		
6	Knowledge and skills:  Year-6-Full-Autumn-Term.pdf  Year-6-Full-Spring-Term.pdf  Year-6-Full-Summer-Term.pdf	Unit 1 Place Value Understand numbers to 10 million, compare and order numbers. Round any number, understand negative numbers in context and problem solving. Unit 2 Part 1 Addition and Subtraction Add and subtract integers up to 1 million, become proficient in column addition and subtraction and use of inverse operations for checking. Solve related problems. Unit 2 part 2 Multiplication and Division Column multiplication by a single digit with	Unit 3 Fractions Simplify fractions, compare and order fractions on a number line, change fractions from improper to mix and order. Add and subtract mixed fractions, multiply and divide fractions by integers, find fractions of amounts and find the original whole. Unit 4 Position and direction Place coordinates in all four quadrants, confidently translate and reflect shapes. Solve related problems.	Unit 5 Decimals Decimals to 3dp, multiply and divide decimals by 10, 100 and 1000. Multiply and divide decimals by integers. Decimals as fractions and vice versa, solving problems including decimals and conversions. Unit 6 Percentages Understand percentages and relate to fractions and decimals, order FDP, find percentages of amounts, percentages missing values and original cost. Unit 7 Algebra	Unit 8 Measures and Conversions Metric measures, imperial measures, conversions of metric and imperial – miles to km. Interpret graphs and charts relating to measures. Unit 9 Perimeter, Area and Volume Area and perimeter of triangles, parallelogram, compound shapes, volume – counting and 3D representations, volume of cuboids.	SAT Revision Unit 11 Statistics Read, draw and interpret line graphs, use line graphs to solve problems, understand circles, read, draw and interpret pie charts, understand pie chart percentages, calculate averages including the mean average. Unit 12 Properties of Shape Measure to within 1 degree with a protractor, calculate angles around a point, on a line, understand vertically opposite angles, angles in triangle/ quadrilateral, angles in regular polygons, missing	Consolidation and Themed Projects: White Rose Bakery – best value, profit and loss, packaging, scaling of problems. White Rose Tours – Distance conversion graphs, pricing and budgeting, time problems. White Rose Futures – Annual salary, hourly rates, bills, mortgages, housing, benefits.	 Year 6 maths expectations.pdf	Progression from Y5  Maths_guidance_year_6.pdf



		numbers up to 10000. Long multiplication of 2, 3, and 4 digits. Bus stop division of 4 digits by 1 digit, division with remainders, rounding up or down after division. Division using factor knowledge. Long division. Common factors, multiples, primes to 100, squares and cubes, BODMIS – order of operations. Mental calculations and estimation.	Autumn Assessment	Find a rule – one and two step problems, form algebraic expressions, formulae, substitution, solve one and two step equations, find pairs of values.	Unit 10 Ratio Use ratio and proportion language, relate to fractions, calculate ratio, use scale factors, solve ratio and proportion problems. Spring Assessment	angles, draw 2D and 3D shapes accurately including nets.			
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Key Documents Linked to the Mathematics Curriculum:

1) National Curriculum Maths Guidance KS1 and 2



Maths_guidance_KS
_1_and_2.pdf

2) National Curriculum Primary Progression Document

3) Ready to Progress Criteria Yr 1 – 6



Ready-to-progress-
criteria-links-FINAL.p



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4) Whole School Vocabulary Progression

6Vocabulary-Progre:



Addition and subtraction calculation



Multiplication and Division calculation

5) Calculation Policies



Catholic Social Teaching and the M

6) CST links in the curriculum



British Values
SDS.pdf

7) British Values/Democracy links:



Cultural Capital at
St Dominic Savio.pd

8) Cultural Capital link in blue – see attached link for whole school overview and Year 6 work in summer term.