DORRINGTON Academy
"TOGETHER WE ARE STRONGER"

Curriculum Map

Subject: Numeracy

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	• Place Value (within 10) • Count forwards and backwards to 10 • Read, write and represent numbers to 10 • Compare and order numbers within 10 • Addition and Subtraction (within 10) • Solve one-step addition and subtraction problems	• Addition and Subtraction (within 20) • Number bonds and fact families within 20 • Geometry: Shape • Recognise and name 2D and 3D shapes • Place Value (within 20) • Compare and order numbers to 20	• Place Value (within 50) • Count, read and write numbers to 50 • Understand tens and ones • Length and Height • Measure and compare lengths and heights • Mass and Volume • Compare and measure mass and capacity	• Multiplication and Division • Count in 2s, 5s and 10s • Solve problems involving sharing and grouping • Fractions • Recognise and find ½ and ¼ of objects, shapes and quantities	• Geometry: Position and Direction • Describe position, movement and turns • Place Value (within 100) • Count, read and write numbers to 100 • Measurement: Money • Recognise coins and notes • Time • Tell the time to the hour and half past	• Number: Addition and Subtraction Consolidation • Number: Multiplication and Division Consolidation • Number and Place Value Consolidation • Measurement Consolidation • Apply learning in reasoning and problem-solving contexts
Year 2	• Recognise, read, write and represent numbers to 100 • Compare and order numbers • Count in 2s, 3s, 5s and 10s • Partition numbers	• Identify and describe properties of 2D and 3D shapes • Sort shapes using different criteria • Recognise lines of symmetry • Recognise, find,	• Identify and describe properties of 2D and 3D shapes • Sort shapes using different criteria • Recognise lines of symmetry • Recognise, find,	• Understand multiplication as repeated addition and arrays • Use division through sharing and grouping • Recall multiplication and division facts for	• Interpret and construct pictograms, tally charts, block diagrams and tables • Interpret information from data • Measure length, mass, capacity and	• Addition and subtraction • Multiplication and division facts and methods • Apply measurement skills using standard units

	into tens and ones • Recall and use number bonds • Add and subtract two-digit numbers using concrete and pictorial methods	name and write fractions (½, ⅓, ¼, ¾) • Find fractions of shapes and quantities • Apply fractions in reasoning and problem-solving	name and write fractions (½, ⅓, ¼, ¾) • Find fractions of shapes and quantities • Apply fractions in reasoning and problem-solving	2, 5 and 10 times tables • Solve multiplication and division word problems • Use number facts to solve calculations efficiently	temperature in practical contexts • Consolidate understanding of fractions • Develop fluency and reasoning across number	• Place Value to 100 • Solve multi-step reasoning and problem-solving using place value
Year 3	• Place Value to 1,000 • Compare and order numbers • Read and write numbers in numerals and words • Number: Addition and Subtraction • Mental and written calculation strategies • Solve one and two-step problems	• Number (continued) • Representing fractions, fractions of amounts, equivalent fractions • Recognise, find and write unit fractions • Count in fractions • Solve problems involving fractions	• Geometry: Properties of Shape • Identify and describe 2D and 3D shapes • Draw and recognise angles • Measure • Length, perimeter, mass and capacity	• Multiplication and Division • Recall and use 3, 4 and 8 times tables • Written multiplication and division methods • Statistics • Interpret pictograms, bar charts and tables	• Measure • Time and money • Read, write and solve problems involving measures • Addition and Subtraction • Apply formal written methods	• Angles, turns and properties of shapes • Revision of key number and measure concepts • Reasoning and problem-solving
Year 4	• Recognise the place value of each digit in numbers to at least 10,000 • Order and compare numbers beyond 1,000 • Round numbers to the nearest 10, 100 and 1,000 Identify • Read, write and convert Roman	• Compare and classify geometric shapes • Identify acute and obtuse angles • Identify lines of symmetry and complete symmetric figures • Recognise and show equivalent fractions • Count up and down in hundredths	• Recognise and write decimal equivalents of tenths and hundredths • Compare and order decimals with up to two decimal places • Solve problems involving fractions and decimals • Multiply two- and three-digit numbers by a one-digit number	• Interpret and compare data using bar charts and line graphs • Solve comparison, sum and difference problems using information presented in graphs • Describe positions using coordinates in the first quadrant	• Convert between units of measure (km/m, kg/g, l/ml) • Measure and calculate perimeter of rectilinear shapes • Estimate, compare and calculate different measures • Read, write and convert time between analogue and digital	• Calculate with measures including money and time • Recognise and write decimal equivalents of fractions • Consolidate fractions, decimals and percentages understanding • Review formal written methods for all

	numerals to 1000 • Add and subtract numbers with up to 4 digits using formal written methods • Solve addition and subtraction two-step problems • Recall multiplication and division facts up to 12 × 12 • Multiply and divide using formal written methods	• Add and subtract fractions with the same denominator	• Divide numbers using formal written methods • Interpret and present discrete and continuous data • Use charts, tables and graphs to solve problems	• Describe movements and translations • Compare and classify shapes and angles • Draw specified polygons and complete symmetrical figures	clocks • Solve problems involving time • Consolidate number and place value knowledge to 10,000	four operations • Apply reasoning and problem-solving across all areas of mathematics
Year 5	• Read, write, order and compare numbers to at least 1,000,000 • Count forwards and backwards through zero with positive and negative numbers • Round numbers to the nearest 10, 100, 1,000, 10,000 and 100,000 • Add and subtract whole numbers with more than 4 digits using formal written methods • Solve multi-step addition and	• Identify and measure angles • Distinguish between regular and irregular polygons • Use properties of rectangles to deduce related facts • Compare and order fractions whose denominators are multiples of the same number • Recognise mixed numbers and improper fractions • Add and subtract fractions with related	• Identify multiples, factors and prime numbers • Establish whether a number is prime up to 100 • Multiply and divide numbers mentally using known facts • Multiply numbers up to 4 digits by a one- or two-digit number using formal methods • Divide numbers up to 4 digits by a one-digit number • Recognise and use percentage, decimal	• Identify, compare and measure angles • Use coordinates in the first quadrant • Interpret and present discrete and continuous data • Complete, read and interpret tables and timetables • Estimate, compare and calculate measures • Calculate perimeter and area of rectangles and compound shapes	• Read, write, order and compare numbers to 1,000,000 • Solve number and place value problems • Identify 3D shapes from 2D representations • Draw and measure angles accurately • Interpret line graphs and tables • Convert between different units of measure and solve measure problems	• Recognise and use fractions, decimals and percentages as equivalent forms • Solve problems involving percentages and decimal values • Calculation strategies across all four operations • Apply reasoning and problem-solving skills across number, geometry and measure

	subtraction problems • Interpret negative numbers in context	denominators	and fraction equivalents			
Year 6	• Read, write, order and compare numbers up to 10,000,000 • Round numbers to a required degree of accuracy • Use negative numbers in context and calculate intervals across zero • Multiply and divide numbers by 10, 100 and 1,000 • Multiply up to 4-digit numbers by a 2-digit number using formal written methods • Divide up to 4-digit numbers by a 2-digit number using formal written methods • Identify common factors, common multiples and prime numbers	• Recognise and use fractions, decimals and percentages as equivalent forms • Compare and order fractions, including fractions greater than one • Add, subtract, multiply and divide fractions • Solve problems involving percentages and percentage increase/decrease • Use negative numbers in calculations and problem solving • Read, write and convert Roman numerals to 1000 • Generate and describe linear number sequences • Solve problems involving algebra and missing number calculations	• Solve problems involving money, including calculating change • Draw, describe and classify 2D and 3D shapes • Recognise, describe and create symmetrical patterns • Reflect and translate shapes on a coordinate grid • Measure and classify angles and calculate unknown angles • Use all four quadrants when plotting and reading coordinates • Calculate perimeter, area and volume of shapes and solids • Recognise and describe the properties of circles	• Interpret and present data using pie charts and line graphs • Calculate and interpret the mean average • Solve problems involving time, including timetables and durations • Use ratio language and solve ratio problems • Solve problems involving proportion and scaling • Use simple formulae and form algebraic expressions • Find pairs of numbers that satisfy an equation	• Consolidate understanding of number, calculation, fractions and measures • Apply reasoning skills to multi-step mathematical problems • Select efficient methods and justify solutions • Solve rich problems involving number, geometry and statistics • Develop fluency, reasoning and problem-solving skills across all mathematical strands	• Review and secure key Year 6 concepts • Apply mathematical skills independently across a range of contexts • Solve complex multi-step problems using efficient strategies • Prepare for KS3 mathematics through investigations and reasoning tasks • Use mathematical vocabulary accurately to explain and justify thinking • Demonstrate confidence and resilience when tackling unfamiliar problems

