Maths Curriculum Map – Explorers (Year 3 and 4)

Autumn Term

	Place Value (4wks)	**Addition & Subtraction (4wks)**	**Multiplication & Division (4wks)**	**Area (1wk)**
Year 3	• Hundreds, tens and ones • Represent numbers to 1,000 • Partition numbers to 1,000 • Thousands • Flexible partitioning • Find 1, 10, 100 or 1,000 more or less • Number line to 1,000 Number line to 10,000 • Estimate on a number line • Compare numbers to 1000 • Order numbers to 1000 • Count 50, 100 • Round to the nearest 10 • Round to the nearest 100 • Round to the nearest 1,000 • Round to the nearest 10, 100 or 1,000 • Roman Numerals • Read and write numbers to 1000 in numerals and words • Solve number problems.	• Add and subtract 1s, 10s, 100s • Add 1s, 10s, 100s across a boundary • Subtract 1s, 10s, 100s across a boundary • Add up to two 3-digit numbers – no exchange • Add up to two 3-digit numbers – across a 10 • Add up to two 3-digit numbers – across a 100 • Add numbers with a different number of digits • Subtract up to two 3-digit numbers – no exchange • Subtract up to two 3-digit numbers – across a 10 • Subtract up to two 3-digit numbers – across a 100 • Subtract numbers with a different number of digits • Estimate answers • Inverse operations • Solve problems	• Use arrays • Sharing and grouping • The 2, 5 and 10 times-tables • The 4 times-table • The 8 times-table • The 2, 4 and 8 times-tables • The 3 times-table • The 6 times-table • The 9 times-table • The 3, 6 and 9 times-tables • The 7 times-table • The 11 times-table • The 12 times-table • Multiply by 1 and 0 • Divide a number by 1 and itself	• What is area? • Count squares
Year 4	• Represent numbers to 1,000 • Partition numbers to 1,000 • Thousands • Represent numbers to 10,000 • Partition numbers to 10,000 • Flexible partitioning Find 1, 10, 100 or 1,000 more or less • Number line to 1,000 Number line to 10,000 Estimate on a number line • Compare numbers beyond 1000 • Order numbers beyond 1000 • Round to the nearest 10 • Round to the nearest 100 • Round to the nearest 1,000 • Round to the nearest 10, 100 or 1,000 • Roman numerals • Count in 25, 1000 • Count backwards through 0 to include negative numbers • Solve problems	• Add and subtract 1s, 10s, 100s, 1,000s • Add 1s, 10s, 100s across a boundary • Subtract 1s, 10s, 100s across a boundary Make connections • Add up to two 4-digit numbers – no exchange • Add up to two 4-digit numbers – across a 10 Add up to two 4-digit numbers – across a 100 • Add up to two 4-digit numbers – across a 1,000 • Add numbers with a different number of digits • Subtract up to two 4-digit numbers – no exchange • Subtract up to two 4-digit numbers – across a 10 • Subtract up to two 4-digit numbers – across a 100 • Subtract up to two 4-digit numbers – across a 1,000 • Subtract numbers with a different number of digits • Estimate answers • Inverse operations • Efficient methods • Solve problems	• The 2, 5 and 10 times-tables • The 4 times-table • The 8 times-table • The 2, 4 and 8 times-tables • The 3 times-table • The 6 times-table • The 9 times-table • The 3, 6 and 9 times-tables The 7 times-table • The 11 times-table • The 12 times-table • Multiply by 1 and 0 • Divide a number by 1 and itself	• What is area? • Count squares • Make shapes • Compare areas

Spring Term

	Multiplication & Division (3wks)	**Length & Perimeter (2wks)**	**Fractions (A) (3wks)**	**Mass & Capacity (2wks)**	**Fractions (B) (2wks)**
Year 3	• Multiply and divide by 10 and 100 • Scaling • Correspondence problems • Multiply up to a 3-digit number by a 1-digit number – no exchange • Multiply up to a 2-digit number by a 1-digit number – with exchange • Related calculations – multiplication and division • Divide by 1-digit number–flexible partitioning • Divide up to a 3 digit number by a 1-digit number – no exchange • Divide up to a 2-digit number by a 1-digit number – with exchange • Divide up to a 2-digit number by a 1-digit number – with remainders • Divide 100 into 2,4,5 and 10 equal parts • Solve problems	• Measure in centimetres and millimetres • Measure in centimetres and metres • Equivalent lengths • Add lengths • Subtract lengths • What is perimeter? • Calculate perimeter	• Making equal parts • Recognise and find half, quarter • Understand denominator • Understand numerators • Unit fractions • Understand the whole • Fractions on a number line • Non-unit fractions • Equivalent fractions • Count beyond 1 • Compare and order fractions • Tenths and counting in tenths	• Measure mass in grams • Measure mass in kilograms and grams • Compare mass • Add and subtract mass • Measure capacity and volume in millilitres • Measure capacity and volume in litres and millilitres • Compare capacity and volume • Add and subtract capacity and volume	• Add fractions • Subtract fractions • Unit fractions of an amount • Non-unit fractions of an amount • Reasoning with fractions of an amount • Solve problems
Year 4	• Factor pairs Multiply and divide by 10 and 100 • Reasoning about multiplication • Multiply three numbers • Efficient multiplication • Correspondence problems • Multiply up to a 3-digit number by a 1-digit number – no exchange • Multiply up to a 3-digit number by a 1-digit number – with exchange • Related calculations – multiplication and division • Divide by 1-digit number–flexible partitioning • Divide up to a 3-digit number by a 1-digit number – no exchange • Divide up to a 3-digit number by a 1-digit number – with exchange • Divide up to a 3-digit number by a 1-digit number – with remainders • Solve problems	• Measure in millimetres and centimetres • Measure in centimetres and metres • Measure in kilometres and metres • Equivalent lengths • Add lengths • Subtract lengths • What is perimeter? • Calculate perimeter • Perimeter of rectilinear shapes • Calculate perimeter of rectilinear shapes • Perimeter of polygons	• Understand denominator • Understand numerators • Unit and Non- unit fractions • Tenths and counting in tenths • Compare and order unit fractions • Fractions on a number line • Compare and order non-unit fractions • Count beyond 1 • Partition a mixed number • Compare and order mixed numbers • Understand improper fractions • Equivalent fractions	• Measure mass in grams • Measure mass in kilograms and grams • Equivalent masses Compare mass • Add and subtract mass • Measure capacity and volume in millilitres • Measure capacity and volume in litres and millilitres • Equivalent capacities and volumes • Compare capacity and volume • Add and subtract capacity and volume • Temperature	• Add fractions • Add fractions and mixed numbers • Subtract fractions • Subtract from whole amounts • Subtract from mixed numbers • Unit fractions of an amount • Non-unit fractions of an amount • Reasoning with fractions of an amount • Solve problems

Summer Term

	Time (2wks)	**Decimals (3wks)**	**Money (2wks)**	**Shape (2wks)**	**Position & Direction (1wk)**	**Statistics (2wks)**
Year 3	• O'clock and half past • Quarter past and quarter to • Tell the time to 5 minutes • Tell the time to the minute • Read time of a digital clock • Use a.m. and p.m. • 24-hour clock times • Hours, minutes and seconds • Find, use and compare durations • Years, months, weeks and days • Problem solving with time	• Recognise tenths and hundredths • Tenths as fractions • Tenths as decimals • Tenths on a place value chart • Tenths on a number line • Hundredths as fractions • Hundredths as decimals • Hundredths on a place value chart	• Pound and pence • Convert pounds and pence • Add money • Subtract money • Find change • Solve problems with money	• Turns and angles • Identify angles • Compare and order angles • Types of lines horizontal, vertical, parallel and perpendicular • 2-D shapes • 3-D shapes	• Describe position using coordinates • Plot coordinates • Draw 2-D shapes on a grid	• Tally charts • Pictograms • Interpret pictograms • Draw bar charts • Table • Solve problems
Year 4	• Tell the time to 5 minutes • Tell the time to the minute • Use a.m. and p.m. • Convert between analogue and digital times • Convert between 12- and 24-hour clock times • Hours, minutes and seconds • Years, months, weeks and days • Problem solving with time	• Recognise tenths and hundredths • Tenths as fractions • Tenths as decimals • Tenths on a place value chart • Tenths on a number line • Hundredths as fractions • Hundredths as decimals • Hundredths on a place value chart • Halves and quarters as decimals • Make a whole • Partition decimals • Compare and order decimals • Round to the nearest whole number • Divide a number by 10 • Divide a number by 100	• Pounds and pence • Write money using decimals • Convert pounds and pence • Compare amounts of money • Estimate with money • Add money • Subtract money • Find change • Solve problems with money using the four operations	• Turns and angles • Identify angles • Compare and order angles • Types of lines horizontal, vertical, parallel and perpendicular • Triangles • Quadrilaterals • Polygons • Draw polygons • Symmetry • 3-D shapes	• Describe position using coordinates • Plot coordinates • Draw 2-D shapes on a grid • Translate on a grid • Describe translation on a grid	• Interpret charts • Interpret line graphs • Draw line graphs • Comparison, sum and difference • Collect and represent data