MATHEMATICS SUBJECT UNITS OVERVIEW

	Autumn		Spring		Summer	
	1	**2**	**1**	**2**	**1**	**2**
Year 1	*Number - Place value* • Sort objects • Count objects • Represent objects • Count, read and write forwards from any number 0 to 10 • Count, read and write backwards from any number 0 to 10 • Count one more • Count one less • One-to-one correspondence to compare groups • Compare groups using language such as equal, more/greater, less/fewer • Introduce <,> and = symbols • Compare numbers • Order groups of objects • Ordinal numbers (1st, 2nd, 3rd …) • The number line	*Number - Addition and Subtraction* • Subtraction – taking away, how many left? Crossing out • Subtraction – taking away, how many left? Introducing the subtraction symbol • Subtraction – finding a part, breaking apart • Fact families – the 8 facts • Subtraction – counting back • Subtraction – finding the difference • Comparing addition and subtraction statements a+b>c • Comparing addition and subtraction statements a+b>c+d *Geometry - Shape* • Recognise and name 3-D shapes • Sort 3-D shapes • Recognise and name 2-D shapes	*Number - Addition and Subtraction* • Add by counting on • Find and make number bonds • Add by making 10 • Subtraction – Not crossing 10 • Subtraction – Crossing 10 • Compare number sentences *Number - Place Value (within 50)* • Numbers to 50 • Tens and ones • Represent numbers to 50 • One more and one less	*Number - Place Value (within 50)* • Compare objects within 50 • Compare numbers within 50 • Count in 2s • Count in 5s *Measurement - Length and Height* • Compare lengths and heights • Measure length *Measurement - Weight and Volume* • Introduce weight and mass • Measure mass • Compare mass • Introduce capacity and volume • Measure capacity Compare capacity	*Number - Multiplication and Division* • Count in 10s • Make equal groups • Add equal groups • Make arrays • Make doubles • Make equal groups – grouping • Make equal groups - sharing *Number - Fractions* • Find a half • Find a quarter *Geometry - Position and direction* • Describe turns • Describe position *Number - Place Value* • Counting to 100 • Partitioning numbers • Comparing numbers • Ordering numbers • One more, one less	*Geometry - Position and direction* • Describe turns • Describe position *Number - Place Value* • Counting to 100 • Partitioning numbers • Comparing numbers • Ordering numbers • One more, one less *Measurement - Money* • *Recognising coins* • *Recognising notes* • *Counting in coins* *Measurement - Time* • Before and after • Dates • Time to the hour • Time to the half hour • Writing time • Comparing time

	Number - Addition and Subtraction • Part whole model • Addition symbol • Fact families – addition facts • Systematic methods for number bonds within 10 • Number bonds to 10 • Compare number bonds • Addition – adding together • Addition – adding more • Finding a part	• Sort 2-D shapes • Patterns with 3-D and 2-D shapes *Number - Place Value (within 20)* • Count forwards and backwards and write numbers to 20 in numerals and words • Numbers from 11 to 20 • Tens and ones • Count one more and once less • Compare groups of objects • Compare numbers • Order groups of objects • Order numbers			

Year 2	Number - place value	Number - Addition and Subtraction	Number - Multiplication and Division	Geometry - Properties of Shape	Measurement - Length and Height	Measurement - Time
	• Counting forwards and backwards within 20 • Tens and ones within 20 • Counting forwards and backwards within 50 • Tens and ones within 50 • Compare numbers within 50 • Counting objects to 100 and read and write numbers in numerals and words • Represent numbers to 100 • Tens and ones with a part-whole model • Tens and ones using addition • Using a place value chart • Compare objects • Compare numbers • Order objects and numbers *Number - Addition and Subtraction* • Fact families – addition and subtraction bonds to 20 • Check calculations • Compare number	• Add a 2-digit and 1-digit number – crossing 10 • Subtraction – crossing 10 • Subtract a 1-digit number and from a 2-digit number – crossing tens • Add two 2-digit number – not crossing 10 – add ones and add tens • Add two 2-digit number – crossing 10 – add ones and add tens • Subtract two 2-digit number – not crossing 10 – subtract ones and tens • Subtract two 2-digit number – crossing 10 – subtract ones and tens • Find and make number bonds • Bonds to 100 (tens and ones) • Add three 1-digit numbers *Measurement - Money* • Recognise coins and notes	• Make equal groups – sharing • Make equal groups – grouping • Divide by 2 • Odd and even numbers • Divide by 5 • Divide by 10 *Statistics* • Make tally charts • Draw pictograms (1-1) • Interpret pictograms (1-1) • Draw pictograms (2, 5 and 10) • Interpret pictograms (2, 5 and 10) • Block diagrams	• Recognise 2-D and 3-D shapes • Count sides on 2-D shapes • Count vertices on 2-D shapes • Draw 2-D shapes • Lines of symmetry • Sort 2-D shapes • Make patterns with 2-D shapes • Count faces on 3-D shapes • Count edges on 3-D shapes • Count vertices on 3-D shapes • Sort 3-D shapes • Make patterns with 3-D shapes • *Number - Factions* • Make equal parts • Recognise a half • Find a half • Recognise a quarter • Find a quarter • Recognise a third • Find a third • Unit fractions • Non-unit fractions • Equivalence of ½ and 2/4 • Find three quarters • Count in fractions	• Measure length (cm) • Measure length (m) • Compare lengths • Order lengths • Four operations with lengths *Geometry - Position and Direction* • Describing movement • Describing turns • Describing movement and turns • Making patterns with shapes	• O'clock and half past • Quarter past and quarter to • Telling time to 5 minutes • Hours and days • Find durations of time • Compare durations of time *Measurement - Mass, Capacity & Temperature* • Compare mass • Measure mass in grams • Measure mass in kilograms • Compare volume • Millilitres • Litres • Temperature

	sentences • Bonds to 100 (tens) • Add and subtract 1s • 10 more and 10 less • Add and subtract 10s • Add by making 10	• Count money – pence • Count money – Pounds (notes and coins) • Select money • Make the same amount • Compare money • Find the total • Find the difference • Find change • Two-step problems *Number - Multiplication and Division* • Make equal groups • Add equal groups • Make arrays			

MATHEMATICS SUBJECT UNITS OVERVIEW

Year 3	*Number - Place value* • Represent numbers to 100 • Tens and ones using addition • Hundreds • Representing numbers to 1,000 • 100s, 10s and 1s • Number line to 1,000 • Find 1, 10 and 100 more or less than a given number • Compare objects to 1000 • Compare numbers to 1000 • Order numbers • Count in 50s *Number - Addition and subtraction* • Add and subtract multiples of 100 • Add and subtract 1s • Add and subtract 3-digit and 1-figit numbers – not crossing 10 • Add a 2-digit number and 1-digit number – crossing 10 • Add 3-digit and 1-digit numbers – crossing 10 • Subtract a 1-digit	*Number - Addition and subtraction* • Add two 2-digit numbers – crossing 10 – add ones and tens • Subtract a 2-digit numbers from a 2-digit number – crossing 10 • Add and subtract a 2-digit and 3-digit numbers – not crossing 10 or 100 • Add a 2-digit and 3-digit numbers – crossing 10 or 100 • Subtract a 2-digit and 3-digit numbers – crossing 10 or 100 • Add two 3-digit numbers – not crossing 10 or 100 • Add two 3-digit numbers – crossing 10 or 100 • Subtract a 3-digit number from a 3-digit number – no exchange • Subtract a 3-digit number from a 3-digit number – exchange • Estimate answers to calculations • Check answers	*Number - Multiplication and division* • Comparing statements • Related calculations • Multiply 2 digits by 1 digit • Divide 2 digits by 1 digit • Scaling *Measurement – Money* • Pounds and pence • Converting pounds and pence • Add money • Subtract money • Give change *Statistics* • Pictograms • Bar charts • Tables	*Measurement - Length and perimeter* • Measure length • Equivalent lengths – m and cm • Equivalent lengths – mm and cm • Compare lengths • Add lengths • Subtract lengths • Measure perimeter • Calculate perimeter *Number - Fractions* • Unit and non-unit fractions • Making the whole • Tenths • Count in tenths • Tenths as decimals • Fractions of a number line • Fractions of a set of objects	*Number - Fractions* • Equivalent fractions • Compare fractions • Order fractions • Add fractions • Subtract fractions *Measurement - Time* • Months and years • Hours in a day • Telling time to the nearest 5 minute • Telling time to the nearest minute • Using a.m. and p.m. • 24-hour clock • Find the duration • Compare the duration • Find start and finish times • Measure time in seconds	*Geometry - Properties of shape* • Turns and angles • Right angles in shapes • Compare angles • Draw accurately • Horizontal and vertical • Parallel and perpendicular • Recognise and describe 2-D shapes • Recognise and describe 3-D shapes • Make 3D shapes *Measurement - Mass and Capacity* • Measure mass • Compare mass • Add and subtract mass • Measure capacity • Compare capacity • Add and subtract capacity

	• number from 2-digits – crossing 10 • Subtract 1 1-digit number from a 3-digit number – crossing 10 • Add and subtract 3-digit and 2-digit numbers – not crossing 100 • Add 3-digit and 2-digit numbers – crossing 100 • Subtract a 2-digit number and a 3-digit number – crossing 100 • Add and subtract 100s • Spot the pattern – making it explicit	_Number - Multiplication and division_ • Multiplication – equal groups • Multiplication using the symbol • Using arrays • 2 times-table • 5 times-table • Making equal groups – sharing • Making equal groups – grouping • Divide by 2 • Divide by 5 • Divide by 10 • Multiply by 3 • Divide by 3 • The 3 times table • Multiply by 4 • Divide by 4 • The 4 times table • Multiply by 8 • Divide by 8 • The 8 times table			

MATHEMATICS SUBJECT UNITS OVERVIEW

	Number – Place value	*Number - Addition and subtraction*	*Number - Multiplication and division*	*Number - Fractions*	*Number - Decimals*	*Statistics*
Year 4	• Represent numbers to 1,000 • 100s, 10s and 1s • Number line to 1,000 • Round to the nearest 10 • Round to the nearest 100 • Count in 1,000s • 1,000s, 100s 10s and 1s • Partitioning • Number line to 10,000 • Find 1, 10, 100 and 1,000 more or less • 1,000 more or less • Compare numbers *Number - Addition and subtraction* • Add and subtracts 1s, 10s, 100s and 1000s • Add two 3-digit numbers – not crossing 10 or 100 • Add two 4-digit numbers – no exchange • Add 3-digit numbers – crossing 10 or 100 • Add two 4-digit numbers – one exchange • Add two 4-digit	• Subtract a 3-digit number from a 3-digit number – exchange • Subtract two 4-digit numbers with one exchange • Subtract two 4-digit numbers with more than one exchange • Efficient subtraction • Estimate answers • Checking strategies *Measurement - Length and Perimeter* • Equivalent lengths – m and cm • Equivalent lengths – mm and cm • Kilometres • Add length • Subtract length • Measure perimeter • Perimeter on a grid • Perimeter of a rectangle • Perimeter of rectilinear shapes *Number - Multiplication and division* • Multiply by 10 • Multiply by 100	• 11 and 12 times-table • Multiply 3 numbers • Factor pairs • Efficient multiplication • Written methods • Multiply 2-digits by 1-digit • Multiply 3-digits by 1-digit • Divide 2-digits by 1-digit • Divide 3-digits by 1-digit • Correspondence problems *Measurement - Area* • What is area? • Counting squares • Making shapes • Comparing area *Number – Fractions* • What is a fraction? • Equivalent fractions • Fractions greater than 1 • Count in fractions	• Add 2 or more fractions • Subtract 2 fractions • Subtract from whole amounts • Calculate fractions of a quantity • Problem solving – calculate quantities *Number – Decimals* • Recognise tenths and hundredths • Tenths as a decimals • Tenths on a place value grid • Tenths on a number line • Divide 1 digit by 10 • Divide 2-digits by 10 • Hundredths • Hundredths as decimal • Hundredths on a place value grid • Divide 1 or 2-digits by 100	• Make a whole • Write decimals • Compare decimals • Order decimals • Round decimals • Halves and quarters *Measurement – Money* • Pounds and pence • Ordering money • Estimating money • Four operations *Measurement – Time* • Hours, minutes and seconds • Years, months, weeks and days • Analogue to digital – 12 hour • Analogue to digital – 24 hour	• Interpret charts • Comparison, sum and difference • Introducing line graphs • Line graphs *Geometry - Properties of shapes* • Identifying angles • Compare and order numbers • Triangles • Quadrilaterals • Lines of symmetry • Complete a symmetric figure *Geometry - Position and direction* • Describe position • Draw on a grid • Move on a grid • Describe a movement on a grid

	• numbers with more than 1 exchange • Subtract a 3-digit number from a 3-digit number – no exchange • Subtract two 4-digit numbers – no exchange	• Divide by 10 • Divide by 100 • Multiply by 1 and 0 • Divide by 1 and itself • Multiply and divide by 3 • The 3 times-table • Multiply and divide by 6 • The 6 times-table • Multiply and divide by 9 • The 9 times-table • Multiply and divide by 7 • The 7 times-table			
Year 5	*Number - Place Value* • Numbers to 10,000 • Rounding to nearest 1000, 100, 10 & 1 • Rounding numbers within 100,000 • Numbers to a million • Counting in 10s, 100s, 1000s, 10,000s and 100,000s • Compare and order numbers to one million • Negative Numbers • Roman Numerals to 1,000	*Number - Multiplication and division* • Multiples • Factors • Common Factors • Prime Numbers • Square numbers • Cube Numbers • Multiply by 10 • Multiply by 100 • Multiply by 10, 100 and 1000 • Divide by 10 • Divide by 100 • Divide by 10, 100 and 1000 • Multiples of 10, 100 and 1000	*Number - Multiplication and division* • Multiply 4-digits by 1 digit • Multiply 2-digits (area model) • Multiply 2-digits by 2-digits • Multiply 3-digits by 2-digits • Multiply 4-digits by 2-digits • Divide 4-digits by 1-digit *Number- Fractions* • Equivalent fractions • Improper fractions to mixed numbers • Mixed numbers to	*Number- Fractions* • Subtract – breaking whole • Subtract 2 mixed numbers • Multiply unit fractions by an integer • Multiply mixed numbers by integers • Fractions of an amount • Using fractions as operators *Number - Decimals and Percentages* • Decimals up to 2 decimal place • Decimals as	*Number - Decimals* • Adding decimals within 1 • Subtracting decimals within 1 • Complements to 1 • Adding decimals – crossing the whole • Adding decimals with the same number of decimal places • Subtracting decimals with the same number of decimal places • Adding decimals with different number of decimal places • Subtracting decimals with different number of	*Geometry - Properties of shape* • Measuring angles in degrees • Measuring with a protractor • Drawing lines and angles accurately • Calculating angles on a straight line • Calculating angles around a point • Calculating lengths and angles in shapes • Regular and irregular polygons • Reasoning about 3D shapes

Number - Addition and Subtraction	*Measurement - Perimeter and Area*	improper fractions	fractions	decimal places	*Geometry - Position and direction*
- Add two 4 digit numbers – more than one exchange - Add whole numbers with more than 4 digits (column method) - Subtract two 4 digit numbers – more than one exchange - Subtract whole numbers with more than 4 digits (column method) - Round to estimate and approximate - Inverse operations (addition and subtraction) - Multi-Step addition and subtraction problems *Statistics* - Interpret charts - Comparison, sum and difference - Introduce line graphs - Read and interpret line graphs - Read and Interpret tables - Two-way tables - Timetables	- Measure perimeter - Perimeter on a grid - Perimeter of rectangles - Perimeter of rectilinear shapes - Calculate perimeter - Counting squares - Area of rectangles - Area of compound shapes - Area of irregular shapes	- Number sequences - Compare and order fractions less/greater than 1 - Compare and order fractions greater than 1 - Add and subtract fractions - Add 3 or more fractions - Add fractions - Subtract fractions - Subtract mixed fractions	- Understanding thousands - Rounding decimals - Order ad compare decimals - Understanding percentages - Percentages as fractions and decimals - Equivalent fractions, decimals and percentages	- Adding and subtracting wholes and decimals - Decimal sequences - Multiplying decimals by 10, 100 and 1000 - Divide decimals by 10, 100 and 1000	- Position in the first quadrant - Reflection - Reflection with coordinates - Translation - Translation with coordinates *Measurement - Converting Units* - Kilograms and kilometres - Milligrams and millilitres - Metric units - Imperial units - Converting units of time - Timetables

Year 6	*Number - Place Value* • Numbers to 10,000 • Numbers to 100,000 • Numbers to a million • Numbers to ten million • Compare and order any number • Round numbers to the nearest 10, 100 and 1000 • Round any number • Negative numbers *Number - Four Operations* • Add whole numbers and with more than 4 digits • Subtract whole numbers with more than 4 digits • Inverse operations • Multiple-step addition and subtraction problems • Add and subtract integers • Multiply 4-digits by 1-digit	*Number – Fractions* • Equivalent fractions • Simplify fractions • Improper fractions to mixed numbers • Mixed numbers to improper fractions • Fractions on a number line • Compare ad order (denominator • Compare and order (numerator) • Add and subtract fractions • Add mixed numbers • Add fractions • Subtract mixed numbers • Subtract fractions • Mixed addition and subtraction • Multiply fractions by integers • Multiply fractions by fractions • Divide fractions by integers • Four rules with fractions • Fraction of an amount	*Number - Decimals* • Three decimal places • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Division to solve problems • Decimals as fractions • Fractions to decimals *Number – Percentages* • Fractions to percentage • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Percentage of an amount • Percentages – missing values *Number – Algebra*	*Number - Decimals* • Metric measures • Convert metric measures • Calculate with metric measures • Miles and kilometres • Imperial measures *Measurement - Perimeter, Area and Volume* • Shapes – same area • Area and perimeter • Area of a triangle • Area of parallelogram • Volume – counting cubes • Volume of a cuboid • *Number - Ratio* • Using ratio language • Ratio and fractions • Introducing the ratio symbol • Calculating ratio • Using scale factors	*Geometry - Properties of Shapes* • Measure with a protractor • Introduce angles • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle – special cases • Angles in a triangle – missing angles • Angles in special quadrilaterals • Angles in regular polygons • Draw shapes accurately • Draw nets of 3-D shapes *Consolidation or SATs preparation*	*Consolidations, investigations and preparations for Key Stage 3*

	• Multiply 2-digits (area model) • Multiply 2-digits by 2-digits • Multiply 3-digits by 2-digits • Multiply up to 4-digit number by 2-digit number • Divide 4 –digits by 1-digit • Divide with remainders • Short division • Division using factors • Long division • Factors • Common factors • Common multiples • Primes to 100 • Squares and cubes • Order of operations • Mental calculations and estimations	• Fraction of an amount – find the whole *Geometry - Position and Direction* • The first quadrant • Four quadrants • Translations • Reflections	• Find a rule – one and two step • Forming expressions • Substitution • Formulae • Forming equations • Solve simple one-step equations • Solve two-step equations • Find pairs of values • Enumerate possibilities	• Calculating scale factors • Ratio and proportion problems *Statistics* • Read and interpret line graphs • Draw line graphs • Use line graphs to solve problems • Circles • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean		