



Year 1

Maths

Autumn			
Topic	Place Value within 10	Addition and Subtraction within 10	Shape
Enquiry Question	There are numbers everywhere. Where might you see numbers when out and about in the world?	When would you use adding and subtracting outside of a Maths lesson?	What are the biggest differences between 2-D shapes and 3-D shapes?
Key Knowledge and skills	In Year 1, the following small steps were: - Sort objects - Count objects - Count objects from a larger group - Represent objects - Recognise numbers as words - Count on from any number • 1 more - Count backwards within 10 1 less - Compare groups by matching - Fewer, more, same - Less than, greater than, equal to - Compare numbers - Order objects and numbers - The number line	In Year 1, the following small steps were: (within 10) - Introduce parts and wholes - Part-whole model - Write number sentences - Fact families – addition facts - Number bonds within 10 - Systematic number bonds within 10 - Number bonds to 10 - Addition – add together - Addition – add more - Addition problems - Find a part - Subtraction – find a part - Fact families – the eight facts - Subtraction – take away/cross out (how many left?) - Take away (how many left?) - Subtraction on a number line - Add or subtract 1 or 2	The small steps of key knowledge and skills in this unit are: - Recognise and name 3-D shapes - Sort 3-D shapes - Recognise and name 2-D shapes - Sort 2-D shapes - Patterns with 2-D and 3-D shapes
End Point	To understand and be able to apply the small steps of key knowledge and skills.		

Spring					
Topic	Place Value within 20	Addition and Subtraction within 20	Place Value within 50	Length & Height	Mass & Volume
Enquiry Question	There are numbers everywhere. Where might you see numbers when out and about in the world?	When would you use adding and subtracting outside of a Maths lesson?	How would the world and life be different if numbers didn't exist?	Why is it helpful to be able to measure the length and height of objects and people?	Why is it helpful to be able to measure the mass and volume of objects and people?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: (within 20) - Count within 20 - Understand 10 - Understand 11, 12 and 13 - Understand 14, 15 and 16 - Understand 17, 18 and 19 - Understand 20 1 more and 1 less - The number line to 20 - Use a number line to 20 - Estimate on a number line to 20 - Compare numbers to 20 - Order numbers to 20	The small steps of key knowledge and skills in this unit are: (within 20) - Add by counting on within 20 - Add ones using number bonds - Find and make number bonds to 20 - Doubles - Near doubles - Subtract ones using number bonds - Subtraction – counting back - Subtraction – finding the difference - Related facts - Missing number problems	The small steps of key knowledge and skills in this unit are: (within 50) - Count from 20 to 50 20, 30, 40 and 50 - Count by making groups of tens - Groups of tens and ones - Partition into tens and ones - The number line to 50 - Estimate on a number line to 50 1 more, 1 less	The small steps of key knowledge and skills in this unit are: - Compare lengths and heights - Measure length using objects - Measure length in centimetres	The small steps of key knowledge and skills in this unit are: - Heavier and lighter - Measure mass - Compare mass - Full and empty - Compare volume - Measure capacity - Compare capacity
End Point	To understand and be able to apply the small steps of key knowledge and skills.				



Maths

Summer						
Topic	Multiplication & Division	Fractions	Position & Direction	Place Value within 100	Money	Time
Enquiry Question	What types of objects or things might you wish to group outside of a Maths lesson?	Can you find a half or a quarter of anything?	When have you ever needed to follow a direction using left, right, forwards, backwards, above and below?	When might you need to compare the value of numbers at home or in life outside of school?	What is the purpose of money – what is it used for?	Why is it important to be able to tell the time?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Count in 2s - Count in 10s - Count in 5s - Recognise equal groups - Add equal groups - Make arrays - Make doubles - Make equal groups – grouping - Make equal groups – sharing	The small steps of key knowledge and skills in this unit are: - Recognise a half of an object or a shape - Find a half of an object or a shape - Recognise a half of a quantity - Find a half of a quantity - Recognise a quarter of an object or a shape - Find a quarter of an object or a shape - Recognise a quarter of a quantity - Find a quarter of a quantity	The small steps of key knowledge and skills in this unit are: - Describe turns - Describe position – left and right - Describe position – forwards and backwards - Describe position – above and below - Ordinal numbers	The small steps of key knowledge and skills in this unit are: (within 100) - Count from 50 to 100 - Tens to 100 - Partition into tens and ones - The number line to 100 1 more, 1 less - Compare numbers with the same number of tens - Compare any two numbers	The small steps of key knowledge and skills in this unit are: - Unitising - Recognise coins - Recognise notes - Count in coins	The small steps of key knowledge and skills in this unit are: - Before and after - Days of the week - Months of the year - Hours, minutes and seconds - Tell the time to the hour - Tell the time to the half hour
End Point	To understand and be able to apply the small steps of key knowledge and skills.					

Year 2

Autumn			
Topic	Place Value	Addition and Subtraction	Shape
Enquiry Question	How does Place Value help us to make estimates, and how can estimation be useful in our lives?	How can adding and subtracting numbers be helpful for us in our lives?	Do you believe that shapes are everywhere?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: (within 10) - Numbers to 20 - Count objects to 100 by making 10s - Recognise tens and ones - Use a place value chart - Partition numbers to 100 - Write numbers to 100 in words - Flexibly partition numbers to 100 - Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 - Estimate numbers on a number line - Compare objects - Compare numbers - Order objects and numbers - Count in 2s, 5s and 10s - Count in 3s	The small steps of key knowledge and skills in this unit are: - Bonds to 10 - Fact families - addition and subtraction bonds within 20 - Related facts - Bonds to 100 (tens) - Add and subtract 1s - Add by making 10 - Add three 1-digit numbers - Add to the next 10 - Add across a 10 - Subtract across 10 - Subtract from a 10 - Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less - Add and subtract 10s - Add two 2-digit numbers (not across a 10) - Add two 2-digit numbers (across a 10) - Subtract two 2-digit numbers (not across a 10) - Subtract two 2-digit numbers (across a 10) - Mixed addition and subtraction - Compare number sentences - Missing number problems	The small steps of key knowledge and skills in this unit are: - 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 on shapes - Use lines of symmetry to complete shapes - Sort 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 2-D and 3-D shapes
End Point	To understand and be able to apply the small steps of key knowledge and skills.		



Maths

Spring				
Topic	Money	Multiplication & Division	Length & Height	Mass, Capacity & Temperature
Enquiry Question	What does one hundred pounds look like? Think about the different coins and notes that exist.	What causes things to multiply outside of number?	Why do we not measure length and height in only one unit of measurement?	When might you need to weigh an object or measure the amount of liquid in a container?
Key Concepts	Measurement	The construction of number and the use of operations.	Measurement	Measurement
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Count money – pence - Count money – pounds (notes and coins) - Count money – pounds and pence - Choose notes and coins	The small steps of key knowledge and skills in this unit are: - Recognise equal groups - Make equal groups - Add equal groups - Introduce the multiplication symbol	The small steps of key knowledge and skills in this unit are: - Measure in centimetres - Measure in metres - Compare lengths and heights - Order lengths and heights	The small steps of key knowledge and skills in this unit are: - Compare mass - Measure in grams - Measure in kilograms - Four operations with mass
	- Make the same amount - Compare amounts of money - Calculate with money - Make a pound - Find change - Two-step problems	- Multiplication sentences - Use arrays - Make equal groups – grouping - Make equal groups – sharing - The 2 times-table - Divide by 2 - Doubling and halving - Odd and even numbers - The 10 times-table - Divide by 10 - The 5 times-table - Divide by 5 - The 5 and 10 times-tables	Four operations with lengths and heights	- Compare volume and capacity - Measure in millilitres - Measure in litres - Four operations with volume and capacity - Temperature
End Point	To understand and be able to apply the small steps of key knowledge and skills.			
Prior Knowledge	In Year 1, the following small steps were: - Unitising - Recognise coins - Recognise notes - Count in coins	In Year 1, the following small steps were: - Count in 2s - Count in 10s - Count in 5s - Recognise equal groups - Add equal groups - Make arrays - Make doubles - Make equal groups – grouping - Make equal groups – sharing	In Year 1, the following small steps were: - Compare lengths and heights - Measure length using objects - Measure length in centimetres	In Year 1, the following small steps were: - Heavier and lighter - Measure mass - Compare mass - Full and empty - Compare volume - Measure capacity - Compare capacity
Key Misconceptions	- Children may think that a bigger coin is greater in value, for example 2p is worth more than 5p. - Children may simply count the number of notes/coins, rather than consider their value. - Children may think that coins are always pence. - Children may mix up pounds and pence. - Children may not understand the meaning of the word “change” in context, so this might need explaining.	- Children may not be able to spot equal and unequal groups. - Children may not realise that two groups are equal if they do not look the same. - Children may represent a set of equal groups incorrectly, for example 2 groups of 4 instead of 4 groups of 2 - Children may not see the different sets of equal groups in an array. - Children may mix up grouping and sharing.	- Children may not line up the object they are measuring with zero on the ruler. - Children may think that they cannot measure the length or height of anything beyond 15 cm if they are using a 15 cm ruler. - Children may not line up the object they are measuring with zero, leading to an incorrect measurement. - Children may confuse the words “longer” and “taller”. - Children may think that centimetres are bigger than metres because the word is longer.	- Children may think that the larger the object, the greater its mass must be. - Children may not read circular scales accurately, particularly if the arrow is not pointing to a number. - Children may not understand the difference between kilograms and grams. - Children may think it is impossible to compare the capacities of two different-sized/shaped containers. - Children may mix up millilitres and litres.
Core Key Words	Money, pence, pound, coin, notes, notation, value, how much, amount, value, different, same, change, price.	Equal, same, groups, multiply, multiplication, lots of, divide, division, array, times, share, group, odd, even, altogether, unequal.	Length, height, taller, tallest, shorter, shortest Centimetres, longer, longest, unit, ruler.	Heavier, heaviest, mass, lighter, lightest, more less, scales, balance, millilitres, litres, grams, kilograms, capacity, volume, temperature, Celsius, heat, warm, cold.



Maths

Summer					
Topic	Fractions	Time	Statistics	Position & Direction	
Enquiry Question	Why might you need to know what a half, a quarter and a third looks like?	Even though digital clocks exist, do we still need to tell the time on an analogue clock?	When is it useful to keep a tally / count of something?	When might you need to give someone directions?	
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: • Introduction to parts and whole • Equal and unequal parts • Recognise a half • Find a half • Recognise a quarter • Find a quarter • Recognise a third • Find a third • Find the whole • Unit fractions • Non-unit fractions • Recognise the equivalence of a half and two-quarters • Recognise three-quarters • Find three-quarters • Count in fractions up to a whole	• O'clock and half past • Quarter past and quarter to • Tell the time past the hour • Tell the time to the hour • Tell the time to 5 minutes • Minutes in an hour • Hours in a day	The small steps of key knowledge and skills in this unit are: • Make tally charts • Tables • Block diagrams • Draw pictograms (1–1) • Interpret pictograms (1–1) • Draw pictograms (2, 5 and 10) • Interpret pictograms (2, 5 and 10)	The small steps of key knowledge and skills in this unit are: • Language of position • Describe movement • Describe turns • Describe movement and turns • Shape patterns with turns	
End Point	To understand and be able to apply the small steps of key knowledge and skills.				



Maths

Year 3

Autumn			
Topic	Place Value	Addition and Subtraction	Multiplication & Division A
Enquiry Question	How can a good understanding of number and place value help us with everyday life - when could we use it or need it?	How have addition and subtraction methods altered over time?	Do you agree that knowledge of multiplication and division can help to improve our mental calculations? Explain.
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Represent numbers to 100 - Partition numbers to 100 - Number line to 100 - Hundreds - Represent numbers to 1,000 - Partition numbers to 1,000 - Flexible partitioning of numbers to 1,000 - Hundreds, tens and ones - Find 1, 10 or 100 more or less - Number line to 1,000 - Estimate on a number line to 1,000 - Compare numbers to 1,000 - Order numbers to 1,000 - Count in 50s	The small steps of key knowledge and skills in this unit are: - Apply number bonds within 10 - Add and subtract 1s - Add and subtract 10s - Add and subtract 100s - Spot the pattern - Add 1s across a 10 - Add 10s across a 100 - Subtract 1s across a 10 - Subtract 10s across a 100 - Make connections - Add two numbers (no exchange) - Subtract two numbers (no exchange) - Add two numbers (across a 10) - Add two numbers (across a 100) - Subtract two numbers (across a 10) - Subtract two numbers (across a 100) - Add 2-digit and 3-digit numbers - Subtract a 2-digit number from a 3-digit number - Complements to 100 - Estimate answers - Inverse operations - Make decisions	The small steps of key knowledge and skills in this unit are: - Multiplication – equal groups - Use arrays - Multiples of 2 - Multiples of 5 and 10 - Sharing and grouping - 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 - The 2, 4 and 8 times-tables
End Point	To understand and be able to apply the small steps of key knowledge and skills.		

Spring				
Topic	Multiplications & Division B	Length & Perimeter	Fractions A	Mass & Capacity
Enquiry Question	Why is our knowledge of place value important when multiplying and dividing by 10 and 100?	When might we be able to apply our knowledge of perimeter? What Scenarios can you think of?	How can you prove that as the denominator increases, the fraction gets smaller? Give examples.	How can our knowledge of mass and capacity help us in our lives?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Multiples of 10 - Related calculations - Reasoning about multiplication - Multiply a 2-digit number by a 1-digit number – no exchange - Multiply a 2-digit number by a 1-digit number – with exchange - Link multiplication and division - Divide a 2-digit number by a 1-digit number – no exchange - Divide a 2-digit number by a 1-digit number – flexible partitioning - Divide a 2-digit number by a 1-digit number – with remainders - Scaling - How many ways?	The small steps of key knowledge and skills in this unit are: - Measure in metres and centimetres - Measure in millimetres - Measure in centimetres and millimetres - Metres, centimetres and millimetres - Equivalent lengths (metres and centimetres) - Equivalent lengths (centimetres and millimetres) - Compare lengths - Add lengths - Subtract lengths - What is perimeter? - Measure perimeter - Calculate perimeter	The small steps of key knowledge and skills in this unit are: - Understand the denominators of unit fractions - Compare and order unit fractions - Understand the numerators of non-unit fractions - Understand the whole - Compare and order non-unit fractions - Fractions and scales - Fractions on a number line - Count in fractions on a number line - Equivalent fractions on a number line - Equivalent fractions as bar models	The small steps of key knowledge and skills in this unit are: - Use scales - Measure mass in grams - Measure mass in kilograms and grams - Equivalent masses (kilograms and grams) - Compare mass - Add and subtract mass - Measure capacity and volume in millilitres - Measure capacity and volume in litres and millilitres - Equivalent capacities and volumes (litres and millilitres) - Compare capacity and volume - Add and subtract capacity and volume
End Point	To understand and be able to apply the small steps of key knowledge and skills.			



Maths

Summer					
Topic	Fractions B	Money	Time	Shape	Statistics
Enquiry Question	How can we use our knowledge of multiplication when finding a fraction of an amount?	Why is it important to understand how to use money?	Why is time management important in our future? Give examples.	How does our knowledge of shape benefit us in our everyday lives?	How does our knowledge of statistics help us to analyse data?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: • Add fractions • Subtract fractions • Partition the whole • Unit fractions of a set of objects • Non-unit fractions of a set of objects • Reasoning with fractions of an amount	The small steps of key knowledge and skills in this unit are: • Pounds and pence • Convert pounds and pence • Add money • Subtract money • Find change	The small steps of key knowledge and skills in this unit are: • Roman numerals to 12 • Tell the time to 5 minutes Tell the time to the minute • Read time on a digital clock • Use am and pm • Years, months and days • Days and hours • Hours and minutes – use start and end times • Hours and minutes - use durations • Minutes and seconds • Units of time • Solve problems with time	are: teps of key knowledge and skills in this unit are: • Turns and angles • Right angles • Compare angles • Measure and draw accurately • Horizontal and vertical • Parallel and perpendicular • Recognise and describe 2-D shapes • Draw polygons • Recognise and describe 3-D shapes • Make 3-D shapes	The small steps of key knowledge and skills in this unit are: • Interpret pictograms • Draw pictograms • Interpret bar charts • Draw bar charts • Collect and represent data • Two-way tables
End Point	To understand and be able to apply the small steps of key knowledge and skills.				

Year 4

Autumn					
Topic	Place Value	Addition and Subtraction	Area	Multiplication & Division A	
Enquiry Question	How does a good understanding of place value allow us to order and compare numbers easily and quickly?	What are benefits of using efficient strategies in comparison to formal written methods?	When can we apply our knowledge of area in our daily lives?	In what other areas of maths can we apply our multiplication and division knowledge and skills? How does this help us to be successful?	
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: • Represent numbers to 1,000 • Partition numbers to 1,000 • Number line to 1,000 • Thousands • Represent numbers to 10,000 • Partition numbers to 10,000 • Flexible partitioning of numbers to 10,000 • Find 1, 10, 100, 1,000 more or less • Number line to 10,000 • Estimate on a number line to 10,000 • Compare numbers to 10,000 • Order numbers to 10,000 • Roman numerals • 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	The small steps of key knowledge and skills in this unit are: • Add and subtract 1s, 10s, 100s and 1,000s • Add up to two 4-digit numbers – no exchange • Add two 4-digit numbers – one exchange • Add two 4-digit numbers – more than one exchange • Subtract two 4-digit numbers – no exchange • Subtract two 4-digit numbers – one exchange • Subtract two 4-digit numbers – more than one exchange • Efficient subtraction • Estimate answers • Checking strategies	The small steps of key knowledge and skills in this unit are: • What is area? • Count squares • Make shapes • Compare areas	The small steps of key knowledge and skills in this unit are: • Multiples of 3 • Multiply and divide by 6 • 6 times-table and division facts • Multiply and divide by 9 • 9 times-table and division facts • The 3, 6 and 9 times-tables • Multiply and divide by 7 • 7 times-table and division facts • 11 times-table and division facts • 12 times-table and division facts • Multiply by 1 and 0 • Divide a number by 1 and itself • Multiply three numbers	
End Point	To understand and be able to apply the small steps of key knowledge and skills.				



Maths

Spring				
Topic	Multiplications & Division B	Length & Perimeter	Fractions	Decimals A
Enquiry Question	When we multiply and divide by 10 and 100, we just add and take away zeros. To what extent do you agree/disagree with this statement?	How might vast distances and perimeters be measured?	Fractions must always be less than 1 whole. Why is this statement false?	What would happen if we did not have a decimal point? Is there another way that we can separate the whole number and the fractional part of a number?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Factor pairs - Use factor pairs - Multiply by 10 - Multiply by 100 - Divide by 10 - Divide by 100 - Related facts – multiplication and division - Informal written methods for multiplication - Multiply a 2-digit number by a 1-digit number - Multiply a 3-digit number by a 1-digit number - Divide a 2-digit number by a 1-digit number (1) - Divide a 2-digit number by a 1-digit number (2) - Divide a 3-digit number by a 1-digit number - Correspondence problems - Efficient multiplication	The small steps of key knowledge and skills in this unit are: - Measure in kilometres and metres - Equivalent lengths (kilometres and metres) - Perimeter on a grid - Perimeter of a rectangle - Perimeter of rectilinear shapes - Find missing lengths in rectilinear shapes - Calculate perimeter of rectilinear shapes - Perimeter of regular polygons - Perimeter of polygons	The small steps of key knowledge and skills in this unit are: - Understand the whole - Count beyond 1 - Partition a mixed number - Number lines with mixed numbers - Compare and order mixed numbers - Understand improper fractions - Convert mixed numbers to improper fractions - Convert improper fractions to mixed numbers - Equivalent fractions on a number line - Equivalent fraction families - Add two or more fractions - Add fractions and mixed numbers - Subtract two fractions - Subtract from whole amounts - Subtract from mixed numbers	The small steps of key knowledge and skills in this unit are: - Tenths as fractions - Tenths as decimals - Tenths on a place value chart - Tenths on a number line - Divide a 1-digit number by 10 - Divide a 2-digit number by 10 - Hundredths as fractions - Hundredths as decimals - Hundredths on a place value chart - Divide a 1- or 2-digit number by 100
End Point	To understand and be able to apply the small steps of key knowledge and skills.			

Summer						
Topic	Decimals B	Money	Time	Shape	Statistics	Position & Direction
Enquiry Question	How do decimal points support us in our daily lives? Are they useful? Explain.	If you were buying several items in a shop, how would estimating support you to ensure that you do not spend over your budget?	In you daily lives, when would you need to convert time from a 12-hour format to a 24hour format? Is the 12-hour format still relevant?	When do we use shapes in our everyday lives? Are they useful? What vocabulary might we use?	How would you use statistics to gather information on the pupils in your class? How would you present this information?	How does a knowledge of coordinates benefit us in our lives? Can you prove an examples?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Make a whole with tenths - Make a whole with hundredths - Partition decimals - Flexibly partition decimals - Compare decimals - Order decimals - Round to the nearest whole number - Halves and quarters as decimals	The small steps of key knowledge and skills in this unit are: - Write money using decimals - Convert between pounds and pence - Compare amounts of money - Estimate with money - Calculate with money - Solve problems with money	The small steps of key knowledge and skills in this unit are: - Years, months, weeks and days - Hours, minutes and seconds - Convert between analogue and digital times - Convert to the 24-hour clock - Convert from the 24-hour clock	The small steps of key knowledge and skills in this unit are: - Understand angles as turns - Identify angles - Compare and order angles - Triangles - Quadrilaterals - Polygons - Lines of symmetry - Complete a symmetric figure	The small steps of key knowledge and skills in this unit are: - Interpret charts - Comparison, sum and difference - Interpret line graphs - Draw line graphs	The small steps of key knowledge and skills in this unit are: - Describe position using coordinates - Plot coordinates - Draw 2-D shapes on a grid - Translate on a grid - Describe translation on a grid
End Point	To understand and be able to apply the small steps of key knowledge and skills.					



Maths

Year 5

Autumn				
Topic	Place Value	Addition and Subtraction	Multiplication & Division A	Fractions A
Enquiry Question	Why is it important to understand the numbers I am using?	What is the most effective method of addition and subtraction and how can I check for accuracy?	How can I use my times table knowledge in a range of ways?	Unit Fractions allow us to see proportions of quantities – when might this be important or helpful in our lives?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Roman numerals to 1,000 - Numbers to 10,000 - Numbers to 100,000 - Numbers to 1,000,000 - Read and write numbers to 1,000,000 - Powers of 10 10/100/1,000/10,000/100,000 more or less - Partition numbers to 1,000,000 - Number line to 1,000,000 - Compare and order numbers to 100,000 - Compare and order numbers to 1,000,000 - Round to the nearest 10, 100 or 1,000 - Round within 100,000 - Round within 1,000,000	The small steps of key knowledge and skills in this unit are: - Mental strategies - Add whole numbers with more than four digits - Subtract whole numbers with more than four digits - Round to check answers - Inverse operations (addition and subtraction) - Multi-step addition and subtraction problems - Compare calculations - Find missing numbers	The small steps of key knowledge and skills in this unit are: - Multiples - Common multiples - Factors - Common factors - Prime numbers - Square numbers - Cube numbers - Multiply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000 - Multiples of 10, 100 and 1,000	The small steps of key knowledge and skills in this unit are: - Find fractions equivalent to a unit fraction - Find fractions equivalent to a non-unit fraction - Recognise equivalent fractions - Convert improper fractions to mixed numbers - Convert mixed numbers to improper fractions - Compare fractions less than 1 - Order fractions less than 1 - Compare and order fractions greater than 1 - Add and subtract fractions with the same denominator - Add fractions within 1 - Add fractions with total greater than 1 - Add to a mixed number - Add two mixed numbers - Subtract fractions - Subtract from a mixed number - Subtract from a mixed number – breaking the whole - Subtract two mixed numbers
End Point	To understand and be able to apply the small steps of key knowledge and skills.			

Spring					
Topic	Multiplications & Division B	Fractions B	Decimals & Percentages	Perimeter & Area	Statistics
Enquiry Question	What is the most effective method of multiplication and division and how can I check for accuracy?	In business, why is it useful to be able to find a fraction of an amount?	How do decimals and percentages link with fractions?	What is the difference between the area of a shape and the perimeter of a shape?	How can I use graphs and tables to represent data?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Multiply up to a 4-digit number by a 1-digit number - Multiply a 2-digit number by a 2-digit number (area model) - Multiply a 2-digit number by a 2-digit number • Multiply a 3-digit number by a 2-digit number - Multiply a 4-digit number by a 2-digit number - Solve problems with multiplication - Short division - Divide a 4-digit number by a 1-digit number - Divide with remainders - Efficient division - Solve problems with multiplication and division	The small steps of key knowledge and skills in this unit are: - Multiply a unit fraction by an integer - Multiply a non-unit fraction by an integer - Multiply a mixed number by an integer - Calculate a fraction of a quantity - Fraction of an amount - Find the whole - Use fractions as operators	The small steps of key knowledge and skills in this unit are: - Decimals up to 2 decimal places - Equivalent fractions and decimals (tenths) - Equivalent fractions and decimals (hundredths) - Equivalent fractions and decimals - Thousandths as fractions - Thousandths as decimals - Thousandths on a place value chart - Order and compare decimals (same number of decimal places)	The small steps of key knowledge and skills in this unit are: - Perimeter of rectangles - Perimeter of rectilinear shapes - Perimeter of polygons - Area of rectangles - Area of compound shapes - Estimate area	The small steps of key knowledge and skills in this unit are: - Draw line graphs - Read and interpret line graphs - Read and interpret tables - Two-way tables - Read and interpret timetables
			- Order and compare any decimals with up to 3 decimal places - Round to the nearest whole number - Round to 1 decimal place - Understand percentages - Percentages as fractions - Percentages as decimals - Equivalent fractions, decimals and percentages		
End Point	To understand and be able to apply the small steps of key knowledge and skills.				



Maths

Summer						
Topic	Shape	Position & Direction	Decimals	Negative Numbers	Converting Units	Volume
Enquiry Question	What jobs / careers require the knowledge of measuring and working with angles?	In what other areas of the curriculum would I use coordinates and how?	How many decimal points do you think we need to work within, within our lives and future careers, and why is this important?	What happens when you count down from zero?	How can different units of measure be converted and compared?	What is volume a measure of and how can it be calculated?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Understand and use degrees - Classify angles - Estimate angles - Measure angles up to 180° - Draw lines and angles accurately - Calculate angles around a point - Calculate angles on a straight line - Lengths and angles in shapes - Regular and irregular polygons 3-D shapes	The small steps of key knowledge and skills in this unit are: - Read and plot coordinates - Problem solving with coordinates - Translation - Translation with coordinates - Lines of symmetry - Reflection in horizontal and vertical lines	The small steps of key knowledge and skills in this unit are: - Use known facts to add and subtract decimals within 1 - Complements to 1 - Add and subtract decimals across 1 - Add decimals with the same number of decimal places - Subtract decimals with the same number of decimal places - Add decimals with different numbers of decimal places - Subtract decimals with different numbers of decimal places - Efficient strategies for adding and subtracting decimals - Decimal sequences - Multiply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000 - Multiply and divide decimals – missing values	The small steps of key knowledge and skills in this unit are: - Understand negative numbers - Count through zero in 1s - Count through zero in multiples - Compare and order negative numbers - Find the difference	The small steps of key knowledge and skills in this unit are: - Kilograms and kilometres - Millimetres and millilitres - Convert units of length - Convert between metric and imperial units - Convert units of time - Calculate with timetables	The small steps of key knowledge and skills in this unit are: - Cubic centimetres - Compare volume - Estimate volume - Estimate capacity
End Point	To understand and be able to apply the small steps of key knowledge and skills.					



Maths

Year 6

Autumn					
Topic	Place Value	Addition, Subtraction, Multiplication & Division	Fractions A	Fractions B	Converting Units
Enquiry Question	How can understanding numbers up to ten million help me in the future?	What are the most efficient methods to use when multiplying and dividing by two-digit numbers?	How can I manipulate fractions by finding equivalence, adding and subtracting?	How can I manipulate fractions by finding part of an amount, multiplying and dividing?	Which units of measure are most efficient – metric or imperial?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Numbers to 1,000,000 - Numbers to 10,000,000 - Read and write numbers to 10,000,000 - Powers of 10 - Number line to 10,000,000 - Compare and order any integers - Round any integer - Negative numbers	The small steps of key knowledge and skills in this unit are: - Add and subtract integers - Common factors - Common multiples - Rules of divisibility - Primes to 100 - Square and cube numbers - Multiply up to a 4-digit number by a 2digit number - Solve problems with multiplication - Short division - Division using factors - Introduction to long division - Long division with remainders - Solve problems with division - Solve multi-step problems - Order of operations - Mental calculations and estimation - Reason from known facts	The small steps of key knowledge and skills in this unit are: - Equivalent fractions and simplifying - Equivalent fractions on a number line - Compare and order (denominator - Compare and order (numerator) - Add and subtract simple fractions - Add and subtract any two fractions - Add mixed numbers - Subtract mixed numbers - Multi-step problems	The small steps of key knowledge and skills in this unit are: - Multiply fractions by integers - Multiply fractions by fractions - Divide a fraction by an integer - Divide any fraction by an integer - Mixed questions with fractions - Fraction of an amount - Fraction of an amount – find the whole	The small steps of key knowledge and skills in this unit are: - Metric measures - Convert metric measures - Calculate with metric measures - Miles and kilometres - Imperial measures
End Point	To understand and be able to apply the small steps of key knowledge and skills.				



Maths

Spring						
Topic	Ratio	Algebra	Decimals	Fractions, Decimals & Percentages	Area, Perimeter & Volume	Statistics
Enquiry Question	How are fractions and ratio similar?	How can letters be used in Maths?	How do I represent numbers which are between whole numbers?	How are fractions, decimals and percentages linked?	In what ways can I use area, perimeter and volume outside of Maths?	How would the use of statistics help me in other subjects?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Add or multiply? - Use ratio language - Introduction to the ratio symbol - Ratio and fractions - Scale drawing - Use scale factors - Similar shapes - Ratio problems - Proportion problems - Recipes	The small steps of key knowledge and skills in this unit are: 1-step function machines 2-step function machines - Form expressions - Substitution - Formulae - Form equations# - Solve 1-step equations - Solve2-step equations - Find pairs of values - Solve problems with two unknowns	The small steps of key knowledge and skills in this unit are: - Place value within 1 - Place value – integers and decimals - Round decimals - Add and subtract decimals - Multiply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000 - Multiply decimals by integers - Divide decimals by integers - Multiply and divide decimals in context	The small steps of key knowledge and skills in this unit are: - Decimal and fraction equivalents - Fractions as division - Understand percentages - Fractions to percentages - Equivalent fractions, decimals and percentages - Order fractions, decimals and percentage - Percentage of an amount – one step - Percentage of an amount – multi-step - Percentages – missing values	The small steps of key knowledge and skills in this unit are: - Shapes – same area - Area and perimeter - Area of a triangle – counting squares - Area of a right-angled triangle - Area of any triangle - Area of a parallelogram - Volume – counting cubes - Volume of a cuboid	The small steps of key knowledge and skills in this unit are: - Line graphs - Dual bar charts - Read and interpret pie charts - Pie charts with percentages - Draw pie charts - The mean
End Point	To understand and be able to apply the small steps of key knowledge and skills.					

Summer			
Topic	Shape	Position & Direction	Themed projects, consolidation & Problem Solving
Enquiry Question	How can I calculate angles if they are not written on?	How can I use coordinates to draw shapes?	How can I use algebra to prepare for high school?
Key Knowledge and skills	The small steps of key knowledge and skills in this unit are: - Measure and classify angles - Calculate angles - Vertically opposite angles - Angles in a triangle - Angles in a triangle – special cases - Angles in a triangle – missing angles - Angles in a quadrilateral - Angles in polygons - Circles - Draw shapes accurately - Nets of 3-D shapes	The small steps of key knowledge and skills in this unit are: - The first quadrant - Read and plot points in four quadrants - Solve problems with coordinates - Translations - Reflections	The small steps of key knowledge and skills which may be studied in preparation for Year 7 are: - Describe and continue sequences - Predict and check next term(s) - Sequences in a table and graphically - Linear and non-linear sequences - Continue linear sequences - Continue non-linear sequences - Explain the term-to-term rule - Find missing terms
End Point	To understand and be able to apply the small steps of key knowledge and skills		