

Autumn Term Breakdown: 13 weeks

Number- 9 weeks

Measurement- 2 weeks

Geometry- 1 week

Statistics- 1 week

<u>Year 3 Support Objectives</u>	<u>Year 4 Core Objectives</u>	<u>Challenge Objectives</u>
<p style="text-align: center;">Number and Place Value</p>	<p style="text-align: center;">Number and Place Value</p>	
<ul style="list-style-type: none"> ▪ 	<ul style="list-style-type: none"> ▪ count in multiples of 6, 7, 9, 25 and 1000 ▪ find 1000 more or less than a given number ▪ count backwards through zero to include negative numbers ▪ recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) ▪ order and compare numbers beyond 1000 ▪ identify, represent and estimate numbers using different representations ▪ round any number to the nearest 10, 100 or 1000 ▪ solve number and practical problems that involve all of the above and with increasingly large positive numbers ▪ read Roman numerals to 100 (I to C) and understand how, over time, the numeral system changed to include the concept of zero and place value. 	
<p style="text-align: center;">Addition and Subtraction</p>	<p style="text-align: center;">Addition and Subtraction</p>	

<ul style="list-style-type: none"> ▪ 	<ul style="list-style-type: none"> ▪ add and subtract numbers with up to 4 digits using the efficient written methods of columnar addition and subtraction where appropriate ▪ estimate and use inverse operations to check answers to a calculation ▪ solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	
<p style="text-align: center;">Multiplication and Division</p>	<p style="text-align: center;">Multiplication and Division</p>	
<ul style="list-style-type: none"> ▪ 	<ul style="list-style-type: none"> ▪ recall multiplication and division facts for multiplication tables up to 12×12 ▪ use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers ▪ recognise and use factor pairs and commutativity in mental calculations ▪ multiply two-digit and three-digit numbers by a one-digit number using formal written layout ▪ solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects. 	
<p style="text-align: center;">Measurement</p>	<p style="text-align: center;">Measurement</p>	

<ul style="list-style-type: none"> ▪ 	<ul style="list-style-type: none"> ▪ convert between different units of measure (e.g. kilometre to metre; hour to minute) ▪ measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres ▪ estimate, compare and calculate different measures, including money in pounds and pence ▪ read, write and convert time between analogue and digital 12 and 24-hour clocks ▪ solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 	
<i>Geometry- Properties of Shapes</i>	<i>Geometry- Properties of Shapes</i>	
<ul style="list-style-type: none"> ❖ 	<ul style="list-style-type: none"> ▪ compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes ▪ identify lines of symmetry in 2-D shapes presented in different orientations 	
<i>Geometry- Position and Direction</i>	<i>Geometry- Position and Direction</i>	
<ul style="list-style-type: none"> ▪ 	<ul style="list-style-type: none"> ▪ describe positions on a 2-D grid as coordinates in the first quadrant ▪ plot specified points and draw sides to complete a given polygon. 	
<i>Statistics</i>	<i>Statistics</i>	
	<ul style="list-style-type: none"> ▪ interpret and present discrete data 	

	<p>using bar charts and continuous data using line graphs</p>	
	<p>Fractions- Including Decimals</p> <ul style="list-style-type: none"> ▪ recognise and show, using diagrams, families of common equivalent fractions ▪ count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten ▪ solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number ▪ add and subtract fractions with the same denominator. ▪ find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths ▪ round decimals with one decimal place to the nearest whole number ▪ compare numbers with the same number of decimal places up to two decimal places 	

Spring Term Breakdown: 11.5 weeks

Number- 9 weeks

Measurement-1.5 weeks

Geometry- 0.5 of a week

Statistics- 0.5 of a week

<u>Year 3 Support Objectives</u>	<u>Year 4 Core Objectives</u>	<u>Challenge Objectives</u>
	<p style="text-align: center;"><i>Number and Place Value</i></p> <ul style="list-style-type: none"> ▪ count in multiples of 6, 7, 9, 25 and 1000 ▪ find 1000 more or less than a given number ▪ count backwards through zero to include negative numbers ▪ recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) ▪ order and compare numbers beyond 1000 ▪ identify, represent and estimate numbers using different representations ▪ round any number to the nearest 10, 100 or 1000 ▪ solve number and practical problems that involve all of the above and with increasingly large positive numbers ▪ read Roman numerals to 100 (I to C) and understand how, over time, the numeral system changed to include the concept of zero and place value. 	

	Addition and Subtraction	
	<ul style="list-style-type: none"> ▪ add and subtract numbers with up to 4 digits using the efficient written methods of columnar addition and subtraction where appropriate ▪ estimate and use inverse operations to check answers to a calculation ▪ solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	
	Multiplication and Division	
	<ul style="list-style-type: none"> ▪ recall multiplication and division facts for multiplication tables up to 12×12 ▪ use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers ▪ recognise and use factor pairs and commutativity in mental calculations ▪ multiply two-digit and three-digit numbers by a one-digit number using formal written layout ▪ solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects. 	
	Fractions- Including Decimals	
	<ul style="list-style-type: none"> ▪ recognise and show, using diagrams, 	

	<p>families commons equivalent fractions</p> <ul style="list-style-type: none"> ▪ count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten ▪ solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number ▪ add and subtract fractions with the same denominator. ▪ recognise and write decimal equivalents of any number of tenths or hundredths ▪ recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$ ▪ find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths ▪ round decimals with one decimal place to the nearest whole number ▪ compare numbers with the same number of decimal places up to two decimal places ▪ solve simple measure and money problems involving fractions and decimals to two decimal places. 	
	<p>Measurement</p>	
	<ul style="list-style-type: none"> ▪ convert between different units of 	

	<p>measure (e.g. kilometre to metre; hour to minute)</p> <ul style="list-style-type: none"> ▪ measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres ▪ find the area of rectilinear shapes by counting ▪ estimate, compare and calculate different measures, including money in pounds and pence ▪ read, write and convert time between analogue and digital 12 and 24-hour clocks ▪ solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 	
	<p><i>Geometry- Properties of Shapes</i></p>	
	<ul style="list-style-type: none"> ▪ compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes ▪ identify acute and obtuse angles and compare and order angles up to two right angles by size ▪ identify lines of symmetry in 2-D shapes presented indifferent orientations ▪ complete a simple symmetric figure with respect to a specific line of symmetry. 	
	<p><i>Geometry- Position and Direction</i></p>	

	<ul style="list-style-type: none">▪ describe positions on a 2-D grid as coordinates in the first quadrant▪ plot specified points and draw sides to complete a given polygon.	
	Statistics	
	<ul style="list-style-type: none">▪ interpret and present discrete data using bar charts and continuous data using line graphs▪ solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs.	

Summer Term Breakdown: 10.5 weeks

Number- 7 weeks

Measurement- 2 weeks

Geometry- 1 week

Statistics- 0.5 of a week

<u>Year 3 Support Objectives</u>	<u>Year 4 Core Objectives</u>	<u>Challenge Objectives</u>
	<p data-bbox="981 469 1256 496" style="text-align: center;"><i>Number and Place Value</i></p> <ul style="list-style-type: none"> <li data-bbox="835 507 1400 579">▪ round any number to the nearest 10, 100 or 1000 <li data-bbox="835 603 1375 675">▪ count in multiples of 6, 7, 9, 25 and 1000 <li data-bbox="835 699 1375 770">▪ find 1000 more or less than a given number <li data-bbox="835 794 1397 866">▪ order and compare numbers beyond 1000 <li data-bbox="835 890 1404 1010">▪ solve number and practical problems that involve all of the above and with increasingly large positive numbers <li data-bbox="835 1034 1442 1106">▪ identify, represent and estimate numbers using different representations <li data-bbox="835 1129 1435 1265">▪ read Roman numerals to 100 (I to C) and understand how, over time, the numeral system changed to include the concept of zero and place value. 	
	<p data-bbox="972 1299 1265 1326" style="text-align: center;"><i>Addition and Subtraction</i></p>	
	<ul style="list-style-type: none"> <li data-bbox="835 1337 1447 1449">▪ add and subtract numbers with up to 4 digits using the efficient written methods of columnar addition and subtraction 	

	<p>where appropriate</p> <ul style="list-style-type: none"> ▪ estimate and use inverse operations to check answers to a calculation ▪ solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	
	Multiplication and Division	
	<ul style="list-style-type: none"> ▪ recall multiplication and division facts for multiplication tables up to 12×12 ▪ use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers ▪ recognise and use factor pairs and commutativity in mental calculations ▪ multiply two-digit and three-digit numbers by a one-digit number using formal written layout 	
	Fractions- Including Decimals	
	<ul style="list-style-type: none"> ▪ Recognise and show, using diagrams, families of common equivalent fractions ▪ count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten ▪ solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, 	

	<p>including non-unit fractions where the answer is a whole number</p> <ul style="list-style-type: none"> ▪ add and subtract fractions with the same denominator. ▪ recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$ ▪ find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths ▪ round decimals with one decimal place to the nearest whole number ▪ compare numbers with the same number of decimal places up to two decimal places ▪ solve simple measure and money problems involving fractions and decimals to two decimal places. 	
	<p><i>Measurement</i></p>	
	<ul style="list-style-type: none"> ▪ convert between different units of measure (e.g. kilometre to metre; hour to minute) ▪ measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres ▪ find the area of rectilinear shapes by counting ▪ estimate, compare and calculate different measures, including money in pounds and pence 	

	<ul style="list-style-type: none"> ▪ read, write and convert time between analogue and digital 12 and 24-hour clocks ▪ solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 	
	<i>Geometry- Properties of Shapes</i>	
	<ul style="list-style-type: none"> ▪ compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes ▪ identify acute and obtuse angles and compare and order angles up to two right angles by size ▪ identify lines of symmetry in 2-D shapes presented in different orientations ▪ complete a simple symmetric figure with respect to a specific line of symmetry. 	
	<i>Geometry- Position and Direction</i>	
	<ul style="list-style-type: none"> ▪ describe positions on a 2-D grid as coordinates in the first quadrant ▪ describe movements between positions as translations of a given unit to the left/right and up/down ▪ plot specified points and draw sides to complete a given polygon. 	
	<i>Statistics</i>	
	<ul style="list-style-type: none"> ▪ solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and 	

	simple line graphs.	
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	Autumn	Spring	Summer	Total
Number	9 weeks	9 weeks	7 weeks	25 weeks
Measurement	2 weeks	2 weeks	2 weeks	6 weeks
Geometry	1 week	1 week	1 week	3 weeks
Statistics	1 week	0.5 of a week	0.5 of a week	2 weeks