



Hadlow Primary School Mathematics Termly End Points

•	Autumn	Spring	Summer
Year 1- Plum Class	Units – Place Value within 20, Addition and Subtraction, Geometry: Shape	Units – Addition and subtraction, Place Value within 50, Measurement: Length & Height	Units – Multiplication and division, Fractions, Geometry: Position & Direction, Place Value to 100, Measurement: Money & Time
	Place Value - Week 1-4 <ul style="list-style-type: none"> Count to 10 forwards and backwards beginning with 0 or 1 or from any given number Count, read and write numerals to 10 in numerals and words Given a number, identify one more or one less Identify and represent numbers using objects and pictorial representation including a number line and use the language of equal to, more than, less than, (fewer) most, least 	Addition and subtractions - Week 1-4 <ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 20. Read, write and interpret mathematical statements involving addition, subtraction and equal signs Add and subtract one-digit numbers to 20 including 0 Solve one step problems that involve addition and subtraction using concrete objects and pictorial 7=? -9 	Multiplication and division - Week 1-3 <ul style="list-style-type: none"> Count in multiples of 2's, 5's and 10's Solve one step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays
	Addition and subtraction - Week 5-8 <ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 10 Read, write and interpret mathematical statements involving addition, subtraction and equal signs Add and subtract one-digit numbers to 10 including 0 Solve one step problems that involve addition and subtraction using concrete objects and pictorial representation and missing number problems 	Place Value within 50 - Week 5-7 <ul style="list-style-type: none"> Count to 50 forwards and backwards beginning with 0 or 1 or from any given number Count, read and write numerals to 50 in numerals and words Given a number, identify one more or one less Identify and represent numbers using objects and pictorial representation including a number line and use the language of equal to, more than, less than, (fewer) most, least Count in multiples of 2's, 5's and 10's 	Fractions - Week 4-5 <ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Compare, describe and solve practical problems for lengths and heights, e.g. long/short, longer/shorter, tall/short, double/half Compare, describe and solve practical problems for mass and weights, e.g. heavy/light, heavier than/lighter than, Capacity and volume e.g. full/empty, more than, less than, half, half full, quarter
	Geometry: Shape – Week 9 <ul style="list-style-type: none"> Recognise and name common 2-D shapes e.g. square, circle and triangles Recognise and name common 3-D shapes e.g. Cuboids, cubes, pyramids and spheres 	Measurement: Length and Height - Week 8-9 <ul style="list-style-type: none"> Measure and begin to record lengths and heights Compare, describe and solve practical problems for lengths and heights e.g. long/short, longer/shorter, tall/short, double/half 	Geometry: Position and direction- Week 6 <ul style="list-style-type: none"> Describe position, direction and movement including whole, half, quarter and three-quarter turns
	Place Value within 20 - Week 10-11 <ul style="list-style-type: none"> Count to 20 forwards and backwards from any given number Count, read and write numbers to 20 in numerals and words Given a number identify one more or one less 	Measurement: Weight and Volume- Week 10-11 <ul style="list-style-type: none"> Measure and begin to record mass/weight, capacity and volume Compare, describe and solve practical problems for mass/weight e.g. heavy/light, heavier than/lighter 	Place Value to 100 – Week 7-8 <ul style="list-style-type: none"> Count to 100 forwards and backwards beginning with 0 or 1 or from any given number Count, read and write numerals to 100 in numerals and words



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	<ul style="list-style-type: none"> Identify and represent numbers using objects and pictorial representation including a number line and use the language of equal to, more than, less than, (fewer) most, least 	<p>than, capacity and volume e.g. full/empty, more than/less than, half, half full, quarter</p>	<ul style="list-style-type: none"> Given a number, identify one more or one less Identify and represent numbers using objects and pictorial representation including a number line and use the language of equal to, more than, less than, (fewer) most, least
			<p>Measurement: Money - Week 9</p> <ul style="list-style-type: none"> Recognise and know the value of different denominations of coins and notes
			<p>Measurement: Time Week 10-11</p> <ul style="list-style-type: none"> Sequence events in chronological order using language eg before, after, next, first, today, yesterday, tomorrow, morning, afternoon and evening Recognise and use language relating to dates including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw hands on a clock face to show these times Compare, describe and solve practical problems for time e.g. quicker, slower, earlier, later Measure and begin to record time e.g. hours, minutes seconds

	Autumn	Spring	Summer
Year 2-Cherry Class	Units – Place Value, Addition & subtraction, Measurement: Money, Multiplication & Division.	Units – Multiplication & Division, Statistics, Geometry: Properties of shape, Fractions, Measurement: Length & Weight	Units – Geometry: Position & Direction, Measurement: Time, Mass/Capacity, Temperature, Problem Solving & Reasoning.
	<p>Place Value – Week 1-3</p> <ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and words. Recognise the place value of each digit in a 2-digit number (tens & ones) Identify, represent and estimate numbers using different representations including the number line. Compare and order numbers from 0 – 100; use < > and = signs. 	<p>Multiplication & Division - Week 1-2</p> <ul style="list-style-type: none"> Recall and use multiplication facts for 2, 5 and 10-times tables including recognising odd and even numbers Calculate mathematical statements for 2, 5 and 10's using multiplication and division using x, ÷ and = Solve problems using multiplication and division using, materials, arrays, repeated addition and mental methods. 	<p>Geometry: Position and Direction – Week 1-3</p> <ul style="list-style-type: none"> Use mathematical vocabulary to describe position, direction and movement including in a straight line. Distinguish between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) Order and arrange combinations of mathematical objects in patterns and sequences.



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	<ul style="list-style-type: none"> • Use place value and number facts to solve problems • Count in steps of 2,3, 5 and tens from any number forwards and backwards 	<ul style="list-style-type: none"> • Show that multiplication of two numbers can be done in any order (commutative) but division cannot 	
	<p>Addition & Subtraction – Week 4-8</p> <ul style="list-style-type: none"> • Recall and use addition & subtraction facts to 20 fluently. Derive and use related facts up to 100. • Add & subtract numbers using concrete objects, pictorial representations and mentally, including two digit numbers and ones, two digit numbers and tens, two digit number and two digit number and adding 3 one digit numbers. • Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Solve problems with addition and subtraction: using concrete objects and pictorial representations. Include problems involving numbers, quantities and measures. • Recognise and use the inverse relationship between addition and subtraction. Use this to check calculations and solve missing number problems 	<p>Statistics – Week 3-4</p> <ul style="list-style-type: none"> • Interpret and construct simple pictograms, tally charts, block diagrams and simple tables • Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity • Ask and answer questions about totalling and comparing categorical data. 	<p>SATS WEEK Problem Solving and Efficient Methods – Week 4-5</p> <ul style="list-style-type: none"> • Reasoning and problem solving in all aspects of previous learning: Multiplication & Division, Statistics, Fractions, Properties of Shape, Length & Height.
	<p>Measurement: Money – Week 9-10</p> <ul style="list-style-type: none"> • Recognise and use symbols for pounds and pence (£/p) • Combine amounts to make a particular value • Find different combinations of coins that make the same amount of money • Solve simple problems practically, including addition and subtraction and giving change. 	<p>Geometry: Properties of shape – Week 5-7</p> <ul style="list-style-type: none"> • Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line • Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces. • Identify 2D shapes on the surface of 3D shapes e.g a circle on a cylinder and a triangle on a pyramid. • Compare and sort common 2D and 3D shapes and everyday objects. 	<p>Measurement: Time – Week 6-7</p> <ul style="list-style-type: none"> • Tell and write the time to five minutes, including quarter past/to the hour. • Draw hands on a clock to show these times • Know the number of minutes in an hour and the number of hours in a day • Compare and sequence intervals of time
	<p>Multiplication & Division - Week 11-12</p> <ul style="list-style-type: none"> • Recall and use multiplication facts for 2, 5 and 10 times tables including recognising odd and even numbers 	<p>Fractions – Week 8-10</p> <ul style="list-style-type: none"> • Recognise, find, name and write fractions of a length, shape, set of objects or quantity $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{4}$ and $\frac{3}{4}$ 	<p>Measurement: Mass, Capacity & Temperature – Week 8-10</p> <ul style="list-style-type: none"> • Choose and use appropriate standards of units to estimate and measure length/height (m/cm) in any



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	<ul style="list-style-type: none"> • Calculate mathematical statements for 2, 5 and 10's using multiplication and division using \times, \div and $=$ • Solve problems using multiplication and division using, materials, arrays, repeated addition and mental methods. • Show that multiplication of two numbers can be done in any order (commutative) but division cannot. 	<ul style="list-style-type: none"> • Write simple fractions for example $\frac{1}{2}$ of 6 = 3 • Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ 	<p>direction; mass (kg/g), temperature ($^{\circ}\text{C}$), capacity (l/ml).</p> <ul style="list-style-type: none"> • Use rulers, scales thermometers and measuring vessels to the nearest unit. • Compare and order lengths, mass, volume/capacity and record the results using $<$ $>$ and $=$
		<p>Measurement: Length & Weight – Week 11</p> <ul style="list-style-type: none"> • Choose and use appropriate standards of units to estimate and measure length/height (m/cm) in any direction; mass (kg/g), temperature ($^{\circ}\text{C}$), capacity (l/ml). • Use rulers, scales thermometers and measuring vessels to the nearest unit. • Compare and order lengths, mass, volume/capacity and record the results using $<$ $>$ and $=$ 	<p>Investigations/Retrieval – Week 11-12</p> <ul style="list-style-type: none"> • Reasoning and problem solving in all aspects of previous learning



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	Autumn	Spring	Summer
Year 3- Oak Class	Units – Place value, Addition & Subtraction, Multiplication & Division	Units – Multiplication & Division, Money, Statistics, Length & Perimeter, Fractions	Units – Fractions, Properties of Shape, Mass & Capacity, Time
	<p>Place value – Week 1-3 (TL queried this time frame)</p> <ul style="list-style-type: none"> • Recognise the place value of each digit in a three-digit number • Identify, represent and estimate using different representations • Find 10 or 100 more or less than a given number • Compare and order numbers up to 1000 • Read and write numbers in numerals and words up to 1000 • Solve number problems and practical problems involving these ideas. • Count from 0 in multiples of 4, 8, 50 and 100 	<p>Multiplication and Division – Week 1-3</p> <ul style="list-style-type: none"> • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. • Write and calculate multiplication and division statements for the tables known including 2 digits times 1-digit numbers using mental and formal written methods • Solve problems, including missing numbers involving multiplication and division. • Solve problems including positive integer scaling and correspondence problems in which n objects are connected to m objects 	<p>Fractions – Week 1-3</p> <ul style="list-style-type: none"> • Recognise and show, using diagrams, equivalent fractions with small denominators • Compare and order unit fractions, and fractions with the same denominators • Add and subtract fractions with the same denominator within one whole. • Solve problems that involve all the above
	<p>Addition & Subtraction – Week 4-8</p> <ul style="list-style-type: none"> • Add and subtract numbers mentally including: 3 digits and ones, 3 digits and tens, 3 digits and hundreds. • Add and subtract numbers with up to 3 digits using formal written methods of columnar addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers • Solve problems, including missing numbers, using number facts, place value and more complex addition and subtraction. 	<p>Measurement: Money – Week 4</p> <ul style="list-style-type: none"> • Add and subtract amounts of money to give change using £ and p in practical contexts 	<p>Geometry: Properties of Shape – Week 4-5</p> <ul style="list-style-type: none"> • Recognise angles as a property of shape or a description of a turn • Identify right angles • Recognise that 2 right angles make a half turn, 3 make three quarters of a turn, and 4 make a complete turn • Identify whether angles are greater than or less than a right angle • Identify horizontal and vertical lines. • Identify pairs of perpendicular and parallel lines • Draw 2D shapes and make 3D shapes using modelling material • Recognise 3D shapes in different orientations and describe them
	<p>Multiplication and Division – Week 9-11</p> <ul style="list-style-type: none"> • Count from 0 in multiples of 4, 8, 50 and 100 • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. • Write and calculate multiplication and division statements for the tables known including 2 digits 	<p>Statistics – Week 5-6</p> <ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables • Using information presented in scaled bar charts, pictograms and tables, solve one step and two step questions e.g How many more? How many fewer? 	<p>Measurement: Mass & Capacity – Week 6-8</p> <ul style="list-style-type: none"> • Measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g) and volume/capacity (l/ml)



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	<p>times 1-digit numbers using mental and formal written methods</p> <ul style="list-style-type: none">• Solve problems, including missing numbers involving multiplication and division.• Solve problems including positive integer scaling and correspondence problems in which n objects are connected to m objects		
		<p>Measurement: Length and Perimeter – Week 7-9</p> <ul style="list-style-type: none">• Measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g) and volume/capacity (l/ml)• Measure the perimeter of simple 2D shapes	<p>Measurement: Time – Week 9-12</p> <ul style="list-style-type: none">• Tell and write the time from an analogue clock• Tell and write the time from an analogue clock with Roman Numerals I to XII• Tell the 12 hour and 24-hour time• Estimate and read time with increasing accuracy to the nearest minute• Record and compare time in terms of seconds, minutes and hours• Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight• Know the number of seconds in a minute• Know the number of days in each month• Know the number of days in a year and leap year• Compare durations of events (time taken by particular events or tasks)
		<p>Fractions – Week 10-11</p> <ul style="list-style-type: none">• Count up and down in tenths• Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.• Recognise and use fractions as numbers, unit and non-unit fractions with small denominators.• Recognise, find and write fractions of a discrete set of objects, unit and non-unit fractions with small denominators.• Solve problems that involve all the above.	



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	Autumn	Spring	Summer
Year 4- Chestnut Class	Unit – Place Value, Addition & Subtraction, Length & Perimeter, Multiplication & Division	Unit – Multiplication & Division, Area, Fractions, Decimals	Unit – Decimals, Money, Time, Statistics, Properties of Shape, Position & Direction
	Place Value -Week 1-4 <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 Recognise the place value of each digit in a 4-digit number Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations Round any number to the nearest 10, 100 and 1000 Count backwards through zero to negative numbers Solve number and practical problems will all of the above. 	Multiplication & Division – Week 1-3 <ul style="list-style-type: none"> Recognise and use factor pairs and commutativity in mental calculations Multiply 2 digit and 3-digit numbers by a one-digit number using formal written layout Divide 3 digit by 1 numbers without remainders using times table knowledge Solve problems involving multiplying and adding including using the distributive law to multiply 2-digit numbers by 1 digit; integer scaling problems and correspondence problems such as n objects are connected to m objects 	Decimals -Week 1-2 <ul style="list-style-type: none"> Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to $\frac{1}{4}$ $\frac{1}{2}$ and $\frac{3}{4}$ Understand the effect of dividing a one- or two-digit number by 10 or 100. Identifying the value of the digits in the answer as ones, tenths and hundredths
	Addition & Subtraction – Week 5-7 <ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written method 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 context, deciding which operations and methods to use and why. 	Measurement: Area – Week 4 <ul style="list-style-type: none"> Find the area of rectilinear shapes by counting squares 	Measurement: Money - Week 3-4 <ul style="list-style-type: none"> Estimate, compare and calculate different measures, including money in pounds and pence. Solve simple measure and money problems involving fractions and decimals to two decimal places.
	Measurement: Length & Perimeter – Week 8	Fractions – Week 5-8	Measurement: Time – Week 5



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	<ul style="list-style-type: none"> • Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m • Convert between different units of measure e.g. km to m 	<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 100 and dividing tenths by 10 • Add and subtract fractions with the same denominator • 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 	<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.
	<p>Multiplication & Division – Week 9-11</p> <ul style="list-style-type: none"> • Recall and use multiplication and division facts for multiplication tables up to 12 X 12 • Count in multiples of 6, 7, 9, 25 and 1000 • Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 1 • Multiplying together 3 numbers • Divide 2 by 1 digit numbers without remainders using times table knowledge • Divide 2 by 1 digit numbers with remainders using times table knowledge • Solve problems involving multiplying and adding including using the distributive law to multiply 2-digit numbers by 1 digit; integer scaling problems and correspondence problems such as n objects are connected to m objects 	<p>Decimals – Week 9-11</p> <ul style="list-style-type: none"> • Recognise and write decimal equivalents of any number of tenths or hundredths. • Find the effect of dividing a one- or two-digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths • Solve simple measure and money problems involving fractions and decimals to two decimal places. • Convert between different units of measure [for example, kilometre to metre] 	<p>Statistics – Week 6-7</p> <ul style="list-style-type: none"> • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
			<p>Geometry: Properties of Shape – Week 8-10</p> <ul style="list-style-type: none"> • Identify acute and obtuse angles • Compare and order angles up to 2 right angles by size • Compare and classify geometric shapes including quadrilaterals and triangles, based on their properties and size



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			<ul style="list-style-type: none"> Identify lines of symmetry in 2D shapes presented in different orientations
			<p>Geometry: Position & Direction – Week 11</p> <ul style="list-style-type: none"> Describe on a 2D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon Describe movements between positions as translations of a given unit to the left/right and up/down.

	Autumn	Spring	Summer
Year 5-Maple Class	Unit – Place Value, Addition & Subtraction, Statistics, Multiplication & Division, Perimeter & Area	Unit – Multiplication & Division, Fractions, Decimals & Percentages	Unit – Decimals, Properties of Shape, Position & Direction, Converting Units, Volume
	<p>Place value – Week 1-3</p> <ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 Interpret negative numbers in context Count forwards and backwards with positive and negative whole numbers including through zero Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000 Solve number and practical problems that involve all the above Read Roman numerals up to 1,000 (M) and recognise years written in Roman numerals 	<p>Multiplication & Division – Week 1-3</p> <ul style="list-style-type: none"> Multiply and divide numbers mentally drawing upon known facts (<i>can be completed as a starter</i>) Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for 2-digit numbers. Divide numbers up to 4 digits by a 1- digit number using the formal written method of short division and interpret remainders appropriately for the context. Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign. 	<p>Decimals – Week 1-4</p> <ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths. Find the effect of dividing a one- or two-digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths Solve simple measure and money problems involving fractions and decimals to two decimal places. Convert between different units of measure [for example, kilometre to metre]
	<p>Addition & Subtraction – Week 4-5</p> <ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers 	<p>Fractions – Week 4-9</p> <ul style="list-style-type: none"> Compare and order fractions whose denominators are multiples of the same number. 	<p>Geometry: Properties of Shapes – Week 5-7</p> <ul style="list-style-type: none"> Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.



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	<ul style="list-style-type: none"> • Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar) • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy • Solve addition and subtraction multi-step problems in contexts, deciding with operations and methods to use and why. 	<ul style="list-style-type: none"> • Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths. • Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number e.g $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ • Add and subtract fractions with the same denominator and denominators that are multiples of the same number. 	<ul style="list-style-type: none"> • Use the properties of rectangles to deduce related facts and find missing lengths and angles. • Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. • Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. • Draw given angles and measure them in degrees. • Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90°
	<p>Statistics – Week 6-7</p> <ul style="list-style-type: none"> • Solve comparison, sum and difference problems using information presented in a line graph • Complete, read and interpret information in tables including timetables. 	<p>Decimals & Percentages – Week 10-11</p> <ul style="list-style-type: none"> • Read, write, order and compare numbers with up to three decimal places. • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Round decimals with two decimal places to the nearest whole number and to one decimal place. • Solve problems involving number up to three decimal places. • Recognise the percent symbol (%) and understand that percent relates to ‘number of parts per hundred’, • Write percentages as a fraction with denominator 100, and as a decimal. • Solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25 	<p>Geometry: Position & Direction – Week 8</p> <ul style="list-style-type: none"> • Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
	<p>Multiplication & Division – Week 8-9</p> <ul style="list-style-type: none"> • Multiply and divide numbers mentally drawing upon known facts • Multiply and divide whole numbers by 10, 100 and 1000 • Identify multiples and factors • Find all factor pairs of a number and common factors of 2 numbers • Recognise and use square numbers and cube numbers using the notations (e. g 3^2 and 4^3) 		<p>Geometry: Position & Direction – Week 8</p> <ul style="list-style-type: none"> • Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.



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	<p>Solve problems involving multiplication and division including using knowledge of factors and multiples, squares and cubes</p> <ul style="list-style-type: none"> • Know and use vocabulary of prime numbers, prime factors and composite (non-prime) numbers • Establish whether a number up to 100 is a prime and recall prime numbers up to 19 		
	<p>Measurement: Perimeter & Area – Week 10-11</p> <ul style="list-style-type: none"> • Measure and calculate the perimeter of composite rectilinear shapes in cm and m • Calculate and compare the area of rectangles (including squares) using standard units cm^2/m^2 • Estimate the area of irregular shapes 		<p>Measurement: Volume – Week 11</p> <ul style="list-style-type: none"> • Estimate volume (e.g. using 1cm^3 blocks to build cuboids, including cubes) and capacity (e.g. using water) • Use all 4 operations to solve problems involving measure

	Autumn	Spring	Summer
Year 6-Rowan Class	<p>Unit – Place Value, Four operations, Fractions, Position & Direction</p>	<p>Unit – Decimals, Percentages, Algebra, Converting Units, Area & Volume, Ratio</p>	<p>Unit – Properties of Shape, Statistics</p>
	<p>Place Value – Week 1-2</p> <ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit • Round any whole number to a required degree of accuracy • Use negative numbers in context and calculate intervals across zero • Solve number and practical problems that involve all the above 	<p>Decimals – Week 1-2</p> <ul style="list-style-type: none"> • Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. • Multiply 1-digit numbers with up to 2 decimal places by whole numbers. • Use written division methods in cases where the answer has up to 2 decimal places. • Solve problems which require answers to be rounded to specified degrees of accuracy 	<p>Geometry: Properties of Shapes – Week 1-2</p> <ul style="list-style-type: none"> • Draw 2-D shapes using given dimensions and angles. • Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
	<p>Four Operations – Week 3-6</p> <ul style="list-style-type: none"> • Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why 	<p>Decimals – Week 1-2</p> <ul style="list-style-type: none"> • Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. • Multiply 1-digit numbers with up to 2 decimal places by whole numbers. 	<p>Statistics – Week 3-4</p> <ul style="list-style-type: none"> • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. • Interpret and construct pie charts and line graphs and use these to solve problems.



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<ul style="list-style-type: none"> • Multiply multi-digit numbers up to 4 digits by a 2-digit number using the formal written method of long multiplication • Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division. Interpret remainders as whole number remainders, fractions or by rounding as appropriate for the context • Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division. • Perform mental calculations, including with mixed operations and large numbers • Identify common factors, common multiples and prime numbers • Use their knowledge of the order of operations to carry out calculations involving the four operations • Solve problems involving addition, subtraction, multiplication and division • Use estimation to check answers to calculations and determine in context of a problem, an appropriate degree of accuracy 	<ul style="list-style-type: none"> • Use written division methods in cases where the answer has up to 2 decimal places. • Solve problems which require answers to be rounded to specified degrees of accuracy 	<ul style="list-style-type: none"> • Calculate the mean as an average.
<p>Fractions – Week 7-10</p> <ul style="list-style-type: none"> • Use common factors to simplify fractions • Use common multiples to express fractions in the same denomination • Compare and order fractions, including fractions >1 • Generate and describe linear number sequences (with fractions) • Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions • Multiply simple pairs of proper fractions writing the answer in its simplest form e.g. $1/4 \times 1/2 = 1/8$ • Divide proper fractions by whole numbers e.g. $1/3 \div 2 = 1/6$ 	<p>Algebra - Week 5-6</p> <ul style="list-style-type: none"> • Use simple formulae. • Generate and describe linear number sequences. • Express missing number problems algebraically. • Find pairs of numbers that satisfy an equation with two unknowns. • Enumerate possibilities of combinations of two variables. 	<p>SATS Week/ Problem Solving and Investigations – Week 5 – 11</p> <ul style="list-style-type: none"> • Reasoning and problem solving in all aspects of previous learning



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	<ul style="list-style-type: none"> • Associate a fraction with division and calculate decimal fraction equivalents • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. 		
	<p>Geometry: Position & Direction – Week 11</p> <ul style="list-style-type: none"> • Describe positions on the full co-ordinate grid (all 4 quadrants) • Draw and translate simple shapes on the co-ordinate plane and reflect them in the axes 	<p>Measurement: Converting Units – Week 7</p> <ul style="list-style-type: none"> • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 dp. • Convert between miles and kilometres. 	
		<p>Measurement: Perimeter, Area & Volume – Week 8-9</p> <ul style="list-style-type: none"> • Recognise that shapes with the same areas can have different perimeters and vice versa. • Recognise when it is possible to use formulae for area and volume of shapes. • Calculate the area of parallelograms and triangles. • Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm^3, m^3 and extending to other units (mm^3, km^3) 	
		<p>Ratio – Week 10-11</p> <ul style="list-style-type: none"> • Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. • Solve problems involving similar shapes where the scale factor is known or can be found. • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 	