

Year 3 – 2020-2021

Year 3: Overview of the year

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7 Measures – Time Year 2	2 Addition & Subtraction Written Subtraction	1 Statistics Mental calculation	Place Value Consolidation – value of digits, order etc.	6 Multiplication and Division	4 Place value (using measures)
4 Geometry – Position and Direction – Year 2	1 Measures Perimeter	1 Fractions	2 Geometry 2D and 3D shape, including sorting	4 Addition and subtraction Decimals (money)	6 Addition and subtraction Problems
3 Fractions – Year 2	2 Multiplication and Division Written & mental multiplication	2 Fractions & Division	3 Addition and subtraction (using statistics)	5 Addition & Subtraction (using measures)	4 Fractions
8 Measures Capacity & Volume + Temperature Year 2	3 Multiplication and Division Written & mental division	3 Measures Length, Mass & Volume	3 Fractions	7 Multiplication and division (using measures)	6 Measures General
1 Place value	2 Measures Time	4 Multiplication and Division	3 Geometry Angles	5 Measures Time	2 Statistics
1 Addition & Subtraction Written Addition	1 Geometry 3D shape	5 Multiplication and Division (using measures and money)	4 Measures Time	5 Geometry Properties	Consolidate and Assess.

YEAR 3 : AUTUMN 1

Week 1	Week 2	Week 3	Week 4	Week 5	
7 Measures Time	4 Geometry Position & Direction	3 Fractions	8 Measures Capacity & Volume + Temperature	1 Place Value	2 Addition and Subtraction
Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)	Revisit and revise previous Year 2 objectives with regard to fractions, ie Know $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{4}$ of numbers and work out equivalence of fractions	Choose and use appropriate standard units to estimate and measure: - temperature ($^{\circ}\text{C}$) - capacity (l/ml) to the nearest appropriate unit, using, thermometers & measuring vessels.	Know the value of each digit in a three digit number Compare numbers with up to 3 digits To order a set of numbers with 3 digits.	Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.
<ul style="list-style-type: none"> ➤ Read the clock in 5 min intervals past the hour ➤ Read the clock in 5 min intervals to the hour. ➤ Draw hands on the clock showing 5 min internals ➤ Know that 15 minutes past is the same as quarter past. ➤ Know that 15 minutes to is the same as quarter to. 	<ul style="list-style-type: none"> ➤ Know what a right angle is ➤ Describe quarter, half and three-quarter turns in relation to right angles ➤ Use the terms clockwise, anti-clockwise to describe movement 	<ul style="list-style-type: none"> ➤ Know what $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{4}$ and $\frac{1}{3}$ means ➤ Find $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{4}$ and $\frac{1}{3}$ of a shape or length ➤ Find $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{4}$ and $\frac{1}{3}$ of a given number ➤ Write simple fractions, e.g. $\frac{1}{2}$ of 6 = 3 ➤ Recognise and demonstrate the equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ 	<ul style="list-style-type: none"> ➤ Know how much one litre is in ml ➤ Know that many liquids are sold in litres ➤ Know amounts that are more, less than a litre ➤ Measure liquid accurately to the nearest litre and 50 ml ➤ Know that 0°C is freezing point of water ➤ Know that 100°C is boiling point of water ➤ Use a thermometer to accurately measure temperature ➤ Read liquid amount to the nearest 10ml 	<ul style="list-style-type: none"> ➤ Know which number in a set of 3 digit numbers is the greatest ➤ Know which number in a set of 3 digit numbers is the smallest ➤ Order a set of 3 digit numbers from smallest to largest ➤ Order a set of 3 digit numbers from largest to smallest ➤ Identify the hundreds, tens and ones in any 3 digit number ➤ Partition a 3 digit number identifying the value of each digit 	<ul style="list-style-type: none"> ➤ Add two 2-digit numbers using columnar addition without exchanging. ➤ Subtract a 2-digit number from a 2-digit number without exchanging. ➤ Add two 3-digit numbers using columnar addition without exchanging. ➤ Subtract a 2 or 3-digit number from a 3-digit number without exchanging. ➤ Add two 2-digit numbers where the units make more than 10 ➤ Add two 3-digit numbers where the units and/or tens make more than 10 ➤ Subtract a 2-digit number from a 2-digit number where exchanging is required ➤ Subtract a 2-digit number from a 3-digit number where exchanging is required

YEAR 3: AUTUMN 1: Maths Meetings and Mental Maths

WEEK 1 – Year 2	WEEK 2 – Year 2	WEEK 3 – Year 2	WEEK 4 – Year 2	WEEK 5 – Year 2	Week 6 – Year 2
2 Addition and Subtraction	4 Number & Place Value	2 Number & Place Value	1 Multiplication & Division	3 Number & Place Value	4 Addition & Subtraction
Add and subtract numbers mentally, including: <ul style="list-style-type: none"> - 2-digit numbers & ones - 2-digit numbers & tens - two 2-digit numbers - adding three 1-digit numbers 	Recognise the place value of each digit in a 2 digit number	Read and write numbers to at least 100 in numerals and in words.	Recall and use multiplication and division facts for the 2, 5 and 10 tables, including recognising odd and even numbers	Compare and order numbers from 0 up to 100; use < > and = signs.	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.
<p>Mentally:</p> <ul style="list-style-type: none"> ➤ Add any three 1-digit numbers ➤ Subtract any 1-digit number from a greater 1-digit number. ➤ Add a 2-digit number to 1-digit number ➤ Subtract a 1-digit number from a 2-digit number ➤ Add 10 to any 2-digit number ➤ Add any 10s number to a 2-digit number (up to 100) ➤ Subtract 10 from any 2-digit number ➤ Subtract any 10s number from a 2-digit number 	<ul style="list-style-type: none"> ➤ Identify the tens and ones in any 2 digit number ➤ Partition a 2 digit number identifying the value of each digit 	<ul style="list-style-type: none"> ➤ Read all numbers to 50 in words ➤ Write all numbers to 50 in words ➤ Read all numbers to 100 in words ➤ Write all numbers to 100 in words 	<ul style="list-style-type: none"> ➤ Count in 2s; forward and backward. Recite the x2 table up to x12, without error. ➤ Answer any calculation involving x2, out of order. ➤ Know that 2x4 is the same as 4x2 etc. Answer any calculation involving ÷2, out of order. ➤ Count in 5s; forward and backward. Recite the x5 table up to x12, without error. ➤ Answer any calculation involving x5, out of order. ➤ Know that x4 is the same as 4x5 etc. Answer any calculation involving ÷5, out of order. ➤ Count in 10s; forward and backward. Recite the x10 table up to x12, without error. ➤ Answer any calculation involving x10, out of order. ➤ Know that 4x10 is the same as 10x4 etc. ➤ Answer any calculation involving ÷10, out of order. 	<ul style="list-style-type: none"> ➤ Order numbers 0 – 20 from smallest to largest ➤ Order numbers 0 – 20 from largest to smallest ➤ Order numbers 0 – 50 from smallest to largest ➤ Order numbers 0 – 50 from largest to smallest ➤ Order numbers 0 – 100 from smallest to largest ➤ Order numbers 0 – 100 from largest to smallest ➤ Know what = sign stands for and demonstrate correct use ➤ Know what < signs stands for and demonstrate correct use ➤ Know what > signs stands for and demonstrate correct use ➤ Use the = sign in simple calculations, e.g. 15+5=20 ➤ Use the = sign to demonstrate equal value, e.g. 15+5 = 2+18 ➤ Use the < sign between two numbers accurately ➤ Use the > sign between two numbers accurately 	<ul style="list-style-type: none"> ➤ Recognise the inverse relationship between addition and subtraction, e.g. 5+7; 12 – 5; 12 – 7 etc. ➤ Infer the related calculation from a given, e.g. If 6+8=14 what is 14-8? ➤ Complete missing number calculations.

YEAR 3 : AUTUMN 2

Week 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
2 Addition and Subtraction	1 Measures Perimeter	2 Multiplication & Division	3 Multiplication & Division	2 Measures Time	1 Geometry 3D Shape
Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.	Measure the perimeter of simple 2D shapes.	Write and calculate mathematical statements for multiplication using known multiplication tables, including 2-digit x 1-digit, using mental and progressing to formal written methods.	Write and calculate mathematical statements for division using known multiplication tables, including 2-digit x 1-digit, using mental and progressing to formal written methods.	Estimate and read time with increasing accuracy to the nearest minute; Tell and write the time from an analogue clock, including using Roman numerals from I to XII	Make 3D shapes using modelling materials; recognise 3D shapes in different orientations; & describe them
<ul style="list-style-type: none"> ➤ Add two 2-digit numbers using columnar addition without exchanging. ➤ Subtract a 2-digit number from a 2-digit number without exchanging. ➤ Add two 3-digit numbers using columnar addition without exchanging. ➤ Subtract a 2 or 3-digit number from a 3-digit number without exchanging. ➤ Add two 2-digit numbers where the units make more than 10 ➤ Add two 3-digit numbers where the units and/or tens make more than 10 ➤ Subtract a 2-digit number from a 2-digit number where exchanging is required ➤ Subtract a 2-digit number from a 3-digit number where exchanging is required 	<ul style="list-style-type: none"> ➤ Know the term 'perimeter' ➤ Know that the perimeter is the distance around the sides of a shape ➤ Understand that the perimeter refers to distance in real life contexts, e.g. football pitch ➤ Measure accurately each side of 2D shapes and add lengths to find the perimeter 	<ul style="list-style-type: none"> ➤ Multiply a multiple of ten by a single digit mentally, using 2, 3, 4, 5, 8 and 10x. ➤ Multiply a 2-digit number by a single digit using 2, 3, 4, 5, 8 and 10x. 	<ul style="list-style-type: none"> ➤ Divide 2, 3, 4, 5, 8 into any multiple of ten with no remainder. ➤ Divide 2, 3, 4, 5, 8 into any 2-digit number with no remainder. 	<ul style="list-style-type: none"> ➤ Read the time to one minute intervals. ➤ Estimate the time to the nearest five minute interval, e.g. it is nearly ten past four. ➤ Recognise the Roman numerals from I to XII. ➤ Place I – XII on a clock face in correct place ➤ Read time on clock with Roman numerals ➤ Show equivalent time from Roman numeral clock face on regular analogue face and vice versa 	<ul style="list-style-type: none"> ➤ Make 3D shapes from a range of materials (including modelling materials and construction) ➤ Accurately describe the properties of 3D shapes

YEAR 3 : SPRING 1

Week 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
1 Statistics	1 Fractions	2 Fractions	5 Measures Length/ Mass/ Volume	4 Multiplication & Division	5 Multiplication & Division
Interpret and present data using: <ul style="list-style-type: none"> - bar charts - pictograms - tables 	Recognise and show, using diagrams, equivalent fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions & non-unit fractions with small denominators.	Compare and order unit fractions, and fractions with the same denominators.	Measure, compare, add & subtract: <ul style="list-style-type: none"> - lengths (m/cm/mm) - mass (kg/g) - volume/ capacity (l/ml). 	Consolidate: Write and calculate mathematical statements for multiplication and division using known multiplication tables, including 2-digit x 1-digit, using mental and progressing to formal written methods.	Write and calculate mathematical statements for multiplication and division using known multiplication tables, including use of money and length
<ul style="list-style-type: none"> ➤ Read information set out in a bar chart ➤ Read information set out in a pictogram ➤ Read information set out in a table ➤ Read information from a bar chart that has a scale on the vertical axis ➤ Present information in a table ➤ Present information in a bar chart ➤ Present information in a pictogram ➤ Present information in a bar chart where there is a scale on the vertical axis 	<ul style="list-style-type: none"> ➤ Know that $1/2$ is the same as $2/4$ ➤ Be able to show $1/3$ and $2/6$ of a square ➤ Know what fractional values are, e.g. $1/4$ is one part of four, etc. ➤ Know what a unit fraction is ➤ Know what a non-unit fraction is ➤ Use fractions to solve problems ➤ Use a fraction wall diagram to solve problems 	<ul style="list-style-type: none"> ➤ Order fractions with the same denominator. ➤ Order any unit fractions. 	<ul style="list-style-type: none"> ➤ Use measuring apparatus to measure length, mass and volume ➤ Measure accurately to nearest mm, cm, m ➤ Measure accurately to nearest g, kg ➤ Measure accurately to nearest ml, l ➤ Know and use equivalence, e.g. $10\text{mm} = 1\text{cm}$; $50\text{cm} = 1/2\text{m}$; $100\text{cm} = 1\text{m}$ ➤ Know and use equivalence, e.g. $1000\text{g} = 1\text{kg}$; $500\text{g} = 1/2\text{kg}$ ➤ Know and use equivalence, e.g. $1000\text{ml} = 1\text{l}$; $500\text{ml} = 1/2\text{l}$ 	<ul style="list-style-type: none"> ➤ Multiply a multiple of ten by a single digit mentally, using 2, 3, 4, 5, 8 and 10x. ➤ Multiply a 2-digit number by a single digit using 2, 3, 4, 5, 8 and 10x. ➤ Divide 2, 3, 4, 5, 8 into any multiple of ten with no remainder. ➤ Divide 2, 3, 4, 5, 8 into any 2-digit number with no remainder. 	<ul style="list-style-type: none"> ➤ Multiply monetary values (£ only) by a single digit mentally, using 2, 3, 4, 5, 8 and 10x. ➤ Multiply monetary values (£ and p only) by a single digit mentally, using 2, 3, 4, 5, 8 and 10x. ➤ Divide 2, 3, 4, 5, 8 into any monetary value (£ only) with no remainder. ➤ Divide 2, 3, 4, 5, 8 into any monetary value (£ and p only) with no remainder.

YEAR 3 : SPRING 2

WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
Place Value	2 Geometry 2D/3D Shape	3 Addition & Subtraction	3 Fractions	3 Geometry Angles	4 Measures Time
<p>Know the value of each digit in a three digit number</p> <p>Compare numbers with up to 3 digits</p> <p>To order a set of numbers with 3 digits.</p>	<p>Draw 2D shapes</p>	<p>Estimate the answer to a calculation and use the inverse operations to check answers.</p>	<p>Add and subtract fractions with the same denominator within one whole.</p>	<p>Recognise angles are a property of shape or a description of a turn. Identify right angles; recognise that two right angles make a half-turn, three make three quarters & four a complete turn Identify whether angles are greater than or less than a right angle</p>	<p>12-hour & 24-hour clocks Record and compare time in terms of seconds, minutes, hours. Use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight.</p>
<ul style="list-style-type: none"> ➤ Know which number in a set of 3 digit numbers is the greatest ➤ Know which number in a set of 3 digit numbers is the smallest ➤ Order a set of 3 digit numbers from smallest to largest ➤ Order a set of 3 digit numbers from largest to smallest ➤ Identify the hundreds, tens and ones in any 3 digit number ➤ Partition a 3 digit number identifying the value of each digit 	<ul style="list-style-type: none"> ➤ Accurately draw 2D shapes and name them, e.g. squares, rectangles and triangles. 	<ul style="list-style-type: none"> ➤ Use estimation to check the reasonableness of an answer, e.g. Why can't $65+32 = 89$? ➤ Use inverse operations involving + and - to check answers. 	<ul style="list-style-type: none"> ➤ Add two fractions with the same denominator that add up to no more than one whole. ➤ Subtract one fraction from another with the same denominator (below one whole). 	<ul style="list-style-type: none"> ➤ Know that the space between two lines joined at a point is known as an angle and can be measured in degree ➤ Know that the measurement in degrees is greater when the space is wider ➤ Understand that angle can be used to describe a turn ➤ Be able to identify right angles in the environment ➤ Know a right angle as having 90° and use the degrees symbol ➤ Know that two right angles effectively make a straight line and is equivalent to 180° ➤ Know that two right angles make a half turn ➤ Know that three right angles make a three-quarter turn ➤ Know that four right angles make a complete turn ➤ Identify angles smaller than a right angle ➤ Identify angles larger than a right angle 	<ul style="list-style-type: none"> ➤ Read 24 hour clock and show time on analogue clock face, e.g. 18:30 is half past 6 in the evening. ➤ Be able to tell whether a time is am or pm on a 24 hour clock ➤ Know that 60 seconds is one minute. ➤ Know that 60 minutes is one hour. ➤ Show understanding of equivalence, e.g. 90 secs = 1 minute and a half; 75 minutes = 1 hour and a quarter. ➤ Order amounts of time using different units of measurement, e.g. 90 secs; 2 minutes; 120 minutes; 1.5 hours etc. ➤ Know that am represents time from midnight to noon. ➤ Know that pm represents time from noon to midnight.

YEAR 3 : SUMMER 1

WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
6 Multiplication & Division	4 Addition & Subtraction Decimals	5 Addition & Subtraction (using measures)	7 Multiplication & Division (using measures)	5 Measures Time	5 Geometry Properties
Additional practise for formal methods of multiplication and division, including a high focus on reasoning	Count up and down in tenths; recognise that tenths arise from dividing an object into ten equal parts and in dividing numbers or quantities by 10.	Add and subtract measures (length, weight and volume) with up to 3 digits, using formal written methods of columnar addition and subtraction.	Write and calculate measures for multiplication and division using known multiplication tables, including 2-digit x 1-digit, using mental and progressing to formal written methods.	Know the numbers of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events, for example to calculate time taken by particular events or tasks.	Identify horizontal and vertical lines and pairs of perpendicular & parallel lines.
<ul style="list-style-type: none"> ➤ Multiply a multiple of ten by a single digit mentally, using 2, 3, 4, 5, 8 and 10x; Setting everything out in formal method ➤ Multiply a 2-digit number by a single digit using 2, 3, 4, 5, 8 and 10x, setting everything out using a formal method ➤ Divide 2, 3, 4, 5, 8 into any multiple of ten with no remainder, setting everything out using a formal method ➤ Divide 2, 3, 4, 5, 8 into any 2-digit number with no remainder, setting everything out using a formal method 	<ul style="list-style-type: none"> ➤ Count up in tenths starting at zero ➤ Count back in tenths to zero ➤ Count up in tenths starting at any 'tenth number' ➤ Count back in tenths starting at any 'tenth number' ➤ Know that tenths arise from dividing an object, quantity or number into 10 equal parts ➤ Place fractions (tenths) in order – ascending and descending. 	<ul style="list-style-type: none"> ➤ Add two 2-digit numbers using columnar addition without exchanging. ➤ Subtract a 2-digit number from a 2-digit number without exchanging. ➤ Add two 3-digit numbers using columnar addition without exchanging. ➤ Subtract a 2 or 3-digit number from a 3-digit number without exchanging. ➤ Add two 2-digit numbers where the units make more than 10 ➤ Add two 3-digit numbers where the units and/or tens make more than 10 ➤ Subtract a 2-digit number from a 2-digit number where exchanging is required ➤ Subtract a 2-digit number from a 3-digit number where exchanging is required 	<ul style="list-style-type: none"> ➤ Multiply a measure with a multiple of ten by a single digit mentally, using 2, 3, 4, 5, 8 and 10x. ➤ Multiply a measure with a 2-digit number by a single digit using 2, 3, 4, 5, 8 and 10x. ➤ Divide 2, 3, 4, 5, 8 into any measure of ten with no remainder. ➤ Divide 2, 3, 4, 5, 8 into any measure with 2-digit number with no remainder. 	<ul style="list-style-type: none"> ➤ Know 60 minutes = 1 hour ➤ Know 60 seconds = 1 minute ➤ Know the number of days per month varies from 28-31 ➤ State how many days in each month ➤ Know the number of days in a year varies between 365 and 366 ➤ Know that there are 366 days in a leap year ➤ Find the time difference between two events by counting on 	<ul style="list-style-type: none"> ➤ Know and be able to accurately use: horizontal and vertical ➤ Recognise horizontal and vertical in everyday situations ➤ Know the relationship between horizontal and vertical ➤ Know and be able to accurately use: parallel and perpendicular ➤ Accurately draw a line that is parallel or perpendicular to a given line

YEAR 3 : SUMMER 2

WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
4 Place Value	6 Addition and Subtraction Problems	4 Fractions	6 Measures Money	2 Statistics	Consolidate and Assess
Revise all Year 3 activities associated with place value, including additional reasoning activities.	Solve word problems including missing number problems, number facts, place value and more complex addition and subtraction.	Revise all Year 3 activities associated with fractions and decimals.	Consolidate: Adding and subtracting amounts of money to give change, using both £ and p in practical contexts.	Solve 1-step and 2-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts pictograms and other graphs	Start this week by revising the learning covered in Year 3 so as to ensure pupils are fluent and secure with their basic skills.
<ul style="list-style-type: none"> ➤ Focus specifically on: ➤ Knowing which number in a set of 3 digit numbers is the greatest ➤ Knowing which number in a set of 3 digit numbers is the smallest ➤ Ordering a set of 3 digit numbers from smallest to largest ➤ Ordering a set of 3 digit numbers from largest to smallest ➤ Identifying the hundreds, tens and ones in any 3 digit number ➤ Partitioning a 3 digit number identifying the value of each digit 	<ul style="list-style-type: none"> ➤ Solve missing number problems ➤ Solve word problems involving place value ➤ Solve problems with addition to 1000 ➤ Solve problems with subtraction to 1000 	<ul style="list-style-type: none"> ➤ Focus specifically on: ➤ Adding two fractions with the same denominator that add up to no more than one whole. ➤ Subtracting one fraction from another with the same denominator (below one whole). ➤ Counting up in tenths starting at zero ➤ Counting back in tenths to zero ➤ Counting up in tenths starting at any 'tenth number' ➤ Counting back in tenths starting at any 'tenth number' ➤ Knowing that tenths arise from dividing an object, quantity or number into 10 equal parts ➤ Placing fractions (tenths) in order – ascending and descending. 	<ul style="list-style-type: none"> ➤ Add any two amounts of money using notes and coins ➤ Sort out an amount of money by organising it into sets of the same coins and then making up sets of pounds ➤ Give change from £5 ➤ Give change from £10 	<ul style="list-style-type: none"> ➤ Solve problems using pictograms ➤ Solve problems using bar charts ➤ Solve problems using graphs ➤ Solve 1-step problems using pictograms, scaled bar charts and other graphs ➤ Solve 2-step problems using pictograms, scaled bar charts and other graphs ➤ Solve problems which ask, 'How many more...?' ➤ Solve problems which ask, 'How many fewer...?' 	<p>Use a simple assessment process to check on pupils' confidence and consistency in using the learning outlined in Year 3.</p> <p>Analyse the results and use information to help focus the intervention sessions, as needed, for the following term.</p>