Maths Long Term Overview: Year 1 2021-22

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value (within 10) Number:				Addition and Subtraction (Within 10)					Geometry: shape	Number: Place Value (Within 20)	
Spring	Number: Addition and Subtraction (Within 20)				Number: Place Value (Within 50)			Measure: Length and height		Measure: Weight and Volume Class		Consolidation
Summer	Number: Multiplication and Division			Measurement: Time Number: Fractions		Geometry: Position and Direction	Number: Place Value (within 100)		Measure: Money	Measurement: Time	Move to New	

Medium Term Plan: Year 1

Term	Autumn	
Unit	Place Value - 10	
NC Objectives	• count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number • count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens • given a number, identify one more and one less • identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least • read and write numbers from 1 to 20 in numerals and words.	
Ready To Progress	1NPV-1 Count within 100, forward and backwards, starting with any number.	1NPV-2 Reason about the location of number within 20 within the linear number system, including comparing using < > and =.
Small Steps	• Sort objects. • Count objects to 10. (1NPV-1) • Represent objects. • Count, read and write forwards from any number 0 – 10. (1NPV-1) • Count, read and write backwards from any number 0 – 10. . (1NPV-1) • Count one more for numbers within 10. (1NPV-1) • Count one less for numbers within 10. (1NPV-1) • One to One correspondence to start to compare groups. • Compare groups using the language – equal to, more / greater, less/ fewer. (1NPV-2) • Introduce the symbols <, > and =. (1NPV-2) • Compare numbers within 10. (1NPV-2) • Order groups of objects. (1NPV-2) • Order numbers within 10. (1NPV-2) • Ordinal numbers. (1NPV-2) • Number lines from 0-10. (1NPV-2)	
Key Vocabulary- Introduced at Year 1	**Number:** numeral, twenty-one etc, one hundred, forwards, backwards, equal to, equivalent to, most, least, many, multiple of **Place Value:** equal to, half way between, above, below. **Estimating:** roughly	
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.	

Medium Term Plan: Year 1

Term	Autumn
Unit	Addition and Subtraction
NC Objectives	• read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs • represent and use number bonds and related subtraction facts within 10 (20) • add and subtract one-digit and two-digit numbers to 10 (20), including zero • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? – 9.

Ready To Progress	1 NF-1 Develop fluency in addition and subtraction facts within 10.	1 NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples beginning with any multiple, and count forwards and backwards through the odd numbers.
	1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.	1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additives expressions and equations to real-life contexts.

Small Steps	• Part-Whole Model – Single Objects 1AS-1 • Part-Whole Model – with images 1AS-1 • Part-Whole Model 1AS-1 • Addition symbol 1AS-1 • Fact families – addition facts 1 NF-1 1AS-2 • Find number bonds for numbers within 10. 1 NF-1 1AS-1 • Systematic methods for number bonds within 10. 1 NF-1 1AS-1 • Number bonds to 10. 1 NF-1 1AS-1 • Addition – adding together. 1 NF-1 1AS-2 • Addition adding more. 1 NF-1 1AS-2 • Finding a part. 1 NF-1 1AS-1 • Subtraction – taking away, how many are left? Crossing out. 1 NF-1 • Subtraction – taking away, how many are left? Introducing the symbol. 1 NF-1 • Subtraction – finding a part, breaking apart. 1 NF-1 • Fact Families – the 8 facts. 1 NF-1 • Subtraction – counting back 1 NF-1 • Subtraction finding the difference. 1 NF-1

Key Vocabulary- Introduced at Year 1	**Addition and Subtraction:** addition, near double, half, halve, subtract, equals, is the same as, number bonds, pairs, missing numbers

Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Autumn	
Unit	Geometry: Shape	
NC Objectives	▪ recognise and name common 2-D and 3-D shapes, including: ▪ 2-D shapes [for example, rectangles (including squares), circles and triangles] ▪ 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].	
Ready To Progress	1G – 1 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another.	1G – 2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations.
Small Steps	▪ Recognise and name 2D shapes. 1G – 1 1G - 2 ▪ Sort 2D shapes. 1G – 1 1G - 2 ▪ Recognise and name 3D shapes. 1G – 1 1G - 2 ▪ Sort 3D shapes. 1G – 1 1G - 2 ▪ Patterns with 3D and 2D shapes. 1G – 1 1G - 2	
Key Vocabulary- Introduced at Year 1	**Properties of Shape:** symmetry, symmetrical pattern. **2D Shapes:** Point, pointed **3D Shapes:** Cuboid, cylinder	
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.	

Medium Term Plan: Year 1

Term	Autumn
Unit	Measure: Money
NC Objectives	▪ recognise and know the value of different denominations of coins and notes
Small Steps	▪ recognise coins. ▪ recognise notes. ▪ counting in coins.
Key Vocabulary- Introduced at Year 1	**Money:** change, dear, costs more, cheap, costs less, cheaper, costs the same as, how much …?, how many …?, total
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Autumn
Unit	Measure: Length and Height
NC Objectives	▪ compare, describe, and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] ▪ measure and begin to record the following: lengths and heights.
Small Steps	▪ Compare lengths and heights. ▪ Measure lengths.
Key Vocabulary-Introduced at Year 1	**Measure:** measurement, roughly **Length:** centimetre, ruler, metre stick
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Autumn
Unit	Place Value - 20
NC Objectives	▪ count to 20 (and across 100,) forwards and backwards, beginning with 0 or 1, or from any given number ▪ count, read and write numbers to 20. (to 100 in numerals;) count in multiples of twos, fives and tens ▪ given a number, identify one more and one less ▪ identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least ▪ read and write numbers from 1 to 20 in numerals and words.

Ready To Progress	1NPV-1 Count within 100, forward and backwards, starting with any number.	1NPV-2 Reason about the location of number within 20 within the linear number system, including comparing using < > and =.

Small Steps	▪ Count forwards and backwards and write numbers to 20 in numerals and words. 1NPV-1 ▪ Numbers from 11-20 ▪ Tens and ones ▪ Count one more or one less. 1NPV-1 ▪ Compare groups of objects. 1NPV-2 ▪ Compare numbers. 1NPV-2 ▪ Order groups of objects. 1NPV-2 ▪ Order numbers. 1NPV-2
Key Vocabulary- Introduced at Year 1	**Number:** numeral, twenty-one etc, one hundred, forwards, backwards, equal to, equivalent to, most, least, many, multiple of **Place Value:** equal to, half way between, above, below. **Estimating:** roughly
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Spring	
Unit	Addition and Subtraction - 20	
NC Objectives	▪ read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs ▪ represent and use number bonds and related subtraction facts within 20 ▪ add and subtract one-digit and two-digit numbers to 20, including zero ▪ solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? – 9.	
Ready To Progress	1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers	1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additives expressions and equations to real-life contexts.
Small Steps	▪ Add by counting on within 20. 1AS-2 ▪ Find and make number bonds. ▪ Add by making 10. 1AS-2 ▪ Subtraction – Not crossing 10. 1AS-2 ▪ Subtraction – Crossing 10. 1AS-2 ▪ Related facts. 1AS-2 ▪ Compare number sentences.	
Key Vocabulary- Introduced at Year 1	**Addition and Subtraction:** addition, near double, half, halve, subtract, equals, is the same as, number bonds, pairs, missing numbers	
Reasoning and Problem Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.	

Medium Term Plan: Year 1

Term	Spring
Unit	Measurement: Time
NC Objectives	- measure and begin to record the following: time (hours, minutes, seconds) - sequence events in chronological order using language [for example, before and 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 the hands on a clock face to show these times.
Small Steps	- Before and after. - Dates. - Time to the hour. - Time to the half hour. - Waiting time. - Comparing time.
Key Vocabulary-Introduced at Year 1	**Time:** months of the year (January, February ...), seasons: spring, summer, autumn, winter, , weekend, month, year, earlier, later, first, midnight, date, how long ago? how long will it be to ...? , how long will it take to ...? , how often? , always, never, often, sometimes, usually, once, twice , half past, quarter past, quarter to, clock face, hour hand, minute hand, hours, minutes
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Spring
Unit	Place Value - 50
NC Objectives	count to 50 (and across 100,) forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 50. (to 100 in numerals;) count in multiples of twos, fives and tens given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least read and write numbers from 1 to 20 in numerals and words.
Small Steps	▪ Number to 50. ▪ Tens and Ones. ▪ Representing numbers to 50. ▪ One more, one less. ▪ Compare objects within 50. ▪ Compare numbers within 50. ▪ Count in 2's. ▪ Count in 5's.
Key Vocabulary-Introduced at Year 1	**Number:** numeral, twenty-one etc, one hundred, forwards, backwards, equal to, equivalent to, most, least, many, multiple of **Place Value:** equal to, half way between, above, below. **Estimating:** roughly
Reasoning and Problem Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Spring
Unit	Measure: Weight and Volume
NC Objectives	▪ compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] ▪ measure and begin to record the following: capacity and volume.
Small Steps	▪ Introduce weight and mass. ▪ Measure mass. ▪ Compare mass. ▪ Introduce capacity and volume. ▪ Measure capacity. ▪ Compare capacity.
Key Vocabulary- Introduced at Year 1	**Measure:** measurement, roughly **Capacity and Volume:** litre, half litre, capacity, volume, more than, less than, quarter full
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Spring
Unit	Geometry: Position and Direction
NC Objectives	▪ Describe position, direction and movement, including whole, half, quarter and three-quarter turns.
Small Steps	▪ Describe a turn. ▪ Describe a position.
Key Vocabulary- Introduced at Year 1	**Position and Direction:** underneath, centre, journey, quarter turn, three quarter turn.
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Spring
Unit	Addition and Subtraction - 20
NC Objectives	- read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs - represent and use number bonds and related subtraction facts within 20 - add and subtract one-digit and two-digit numbers to 20, including zero - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? − 9.
Small Steps	- Add by counting on. - Find and make number bonds. - Add by making 10. - Subtraction – Not crossing 10. - Subtraction – Crossing 10. - Related facts. - Compare number sentences.
Key Vocabulary- Introduced at Year 1	**Addition and Subtraction:** addition, near double, half, halve, subtract, equals, is the same as, number bonds, pairs, missing numbers
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Summer
Unit	Multiplication and Division
NC Objectives	▪ solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
Small Steps	▪ Count in 10's. ▪ Make equal groups. ▪ Add equal groups. ▪ Make arrays. ▪ Make doubles. ▪ Make equal groups – grouping. ▪ Make equal groups – sharing.
Key Vocabulary- Introduced at Year 1	**Multiplication and Division:** multiplication, multiply, multiplied by, multiple, division, dividing, grouping, array
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Summer
Unit	Fractions
NC Objectives	• 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.
Small Steps	• Count in 10's. • Make equal groups. • Add equal groups. • Make arrays. • Make doubles. • Make equal groups – grouping. • Make equal groups – sharing.
Key Vocabulary- Introduced at Year 1	**Fractions:** fraction, equal part, equal grouping, equal sharing, parts of a whole, half, one of two equal parts, quarter, one of four equal parts
Reasoning and Problem Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Summer
Unit	Place Value - 100
NC Objectives	▪ count to and across 100 forwards and backwards, beginning with 0 or 1, or from any given number ▪ count, read and write numbers to 100 in numerals; ▪ given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least
Small Steps	▪ Counting to 100. ▪ Partitioning numbers. ▪ Comparing numbers. ▪ Ordering numbers. ▪ One more and one less.
Key Vocabulary- Introduced at Year 1	**Number:** numeral, twenty-one etc, one hundred, forwards, backwards, equal to, equivalent to, most, least, many, multiple of **Place Value:** equal to, halfway between, above, below. **Estimating:** roughly
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.

Medium Term Plan: Year 1

Term	Summer
Unit	Addition and Subtraction
NC Objectives	▪ read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs ▪ represent and use number bonds and related subtraction facts within 20 ▪ add and subtract one-digit and two-digit numbers to 20, including zero ▪ solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? – 9.
Small Steps	▪ Add by counting on. ▪ Find and make number bonds. ▪ Add by making 10. ▪ Subtraction – Not crossing 10. ▪ Subtraction – Crossing 10. ▪ Related facts. ▪ Compare number sentences.
Key Vocabulary- Introduced at Year 1	**Addition and Subtraction:** addition, near double, half, halve, subtract, equals, is the same as, number bonds, pairs, missing numbers
Reasoning and Problem-Solving Vocabulary	Problem, problem-solving, mental, mentally, explain your thinking.