John Keble CE School Mathematics Curriculum

Rooted together in love, growing without limits.
Believing in the worth of every individual, we are a nurturing, Christian sanctuary of learning, where all can flourish. We aspire for everyone to achieve heights of success, to deepen courage and to experience breadth of creativity, knowing the joy of God's love.

Whole school curriculum intent

Our ambitious, knowledge-rich curriculum has been sequenced to equip our pupils with the knowledge and skills to ensure they are happy, healthy global citizens, ready to take their place in modern Britain. The broad and balanced curriculum is creative, coherent and inclusive and, together with our Christian values, enables the pupils to be self-motivated, independent learners.

Subject specific curriculum intent: maths

The National Curriculum states: Mathematics is a creative and highly inter-connected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.
Aims of the National Curriculum:

1. **Problem solving -** Pupils use mathematical concepts they have learnt to solve complex problems and apply knowledge to real-life situations.
2. **Reasoning -** It is very important pupils speak and write about mathematics. Pupils learn to explain their mathematics in full sentences. For example, they learn to explain how they know an answer is right.
3. **Fluency -** It is important that pupils recall facts promptly and apply mathematical knowledge accurately. To help them do this, pupils are learning to make connections in Mathematics.

Implementation and impact:

To ensure whole school consistency and progression, at John Keble we use the DfE approved 'Power Maths White Rose' scheme to support the teaching of maths. Power Maths is a whole-class, textbook-based mastery resource that empowers every child to understand and succeed. Power Maths rejects the notion that some people simply 'can't' do maths. Instead, it develops growth mindsets and encourages hard work, practice and a willingness to see mistakes as learning tools. The scheme focuses on pupil-centred learning, where through the Concrete>Pictorial>Abstract (C-P-A) approach, pupils master concepts one step at a time in lessons. We believe that it is vital that pupils fully understand key number concepts and not just memorise a process.

- Concrete – pupils use objects to help them understand and explain their Maths learning
- Pictorial – pupils use pictures to represent their understanding
- Abstract – when pupils can explain and show their understanding, they can move on to represent their understanding using numbers and symbols.

Together, these elements help pupils fully understand what they've learnt, so they can explain and show their understanding with objects, pictures and real-life examples. Objects and pictures are used to demonstrate and visualise ideas, alongside numbers and symbols. An interactive, whole-class teaching model encourages thinking and precise mathematical language and allows pupils to deepen their understanding as far as they can.

Structure of a lesson.

1. Power up - The lesson begins with a fluency task to build on prior learning and consolidate number facts.
2. Discover - In this section, pupils are presented with a problem and some focused questions, through which they share, explore and learn. Pupils take ownership of their own learning and consider how to show their understanding in different ways.
3. Share activity - This is a whole-class, interactive learning phase in which pupils share their thinking and identify the best ways to solve a problem.
4. Think together - This part of the lesson begins with a teacher-guided question, followed by a problem for pupils to solve in pairs, followed by an independent question. This section develops the problem using the Concrete – Pictorial – Abstract approach and there is clear progression within each lesson.
5. Practice – Pupils are provided with activities and questions to apply and practise what they have learnt. The questions are designed to help pupils understand the key features of each concept and build their fluency. Each lesson has an 'Even Deeper' challenge question, ensuring greater depth opportunities are available for the higher attaining children.
6. Reflect - This section involves everyone looking back on what they feel they've each learnt, helping pupils to understand and consolidate their learning.
7. Support - The teacher guides are clearly set out. Each unit begins with a starter page, explaining what pupils will learn and establishing that they have the prior knowledge required using some sample problems. It also introduces any essential vocabulary.

Through the mastery and growth mindset approach of Power Maths, at John Keble we desire our pupils to become confident and capable mathematicians who are able to understand the importance of maths to their future and in the wider world. Over the course of their school journey, pupils will have developed new knowledge, understanding and skills which they can use and recall this with fluency. They will have achieved appropriately for their age and be ready to take on the challenges of their next chapters in education and life.

Nursery

Term	Strand	Week	Objective - NCETM Early Maths	Vocabulary
Autumn 1	Cardinality and counting	1	Say number words in sequence	Number names
		2	Tag each object with one number word	
		3	Know that the last number counted gives the total	
		4	Recognise small quantities without needing to count them all	
		5	Match quantities to the numerals	
		6	Knowing that the number does not change if the objects are rearranged	
Autumn 2	Comparison	1	To talk about which group has more and which group has less	more and less same 1 more and 1 less
		2		
		3	Identity groups that are the same	
		4	Compare quantities of items and explain which group you want and why	
		5	Understand the one more and one less relationship between counting numbers	
		6		
Spring 1	Composition	1	To identify smaller amounts within an amount	Parts Compare Total
		2		
		3	To know that a number can be partitioned and put back together	
		4	To know a number can be partitioned into different pairs	
		5		
		6	To know that a number can be partitioned into more than two numbers	
Spring 2	Pattern	1	Continue an AB pattern	pattern, repeat, mistake, error
		2		
		3	Make an AB pattern	
		4		
		5	Identify and error in an AB pattern	
		6		
Summer 1	Shape and Space	1	Use positional vocabulary	in, on, under up, down, across in front of, behind, forwards and
		2	Use directional vocabulary	
		3	Select shapes to fulfil a purpose	
		4	Identify similarities between shapes	

		5	Select shapes to fulfil a purpose - thinking about their properties	backwards shape
		6		
Summer 2	Measure	1	Recognising and comparing length	length, weight, capacity Long / short / tall Heavy / light Full / empty
		2		
		3	Recognising and comparing weight	
		4		
		5	Recognising and comparing capacity	
		6		

Reception Autumn Term

Unit	Key vocabulary highlighted in this unit			New vocabulary		
1	one two three four next after	five number count count forwards count backwards arange	how many total altogether cube same different	same different		
2	one two three four five more fewer	same different every count represent match equal amount	sort compare equal less than fewer than greater than more than	more fewer		
3	roll stack push curved straight round corners face edge sides	square rectangle circle triangle sphere cube cuboid cylinder cone big	little flat like a slides pointy odd one out same difference different properties characteristics	roll stack push curved straight	round corners square rectangle circle triangle	
4	one two three four five none	forwards backwards how many first then now	order fewer take away add altogether number story	one more first then now order		

	zero count	one less one more	represent five frame			
5	one two three four five	group parts whole part-whole model how many	count counting more than same different	whole parts		
6	in on below under above	in front of behind next to up	down across forwards backwards			

Strand	Unit	Unit title	Week	Week title	Early Learning Goal
Number – number and place value	1	Numbers to 5	1	Counting to 1, 2 and 3	Have a deep understanding of number to 10, including the composition of each number.
			2	Counting to 4	Subitise (recognise quantities without counting) up to 5.
			3	Counting to 5	Recognise the pattern of the counting system
Number – number and place value	2	Comparing groups within 5	4	Comparing quantities of identical objects	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
			5	Comparing quantities of non- identical objects	Subitise (recognise quantities without counting) up to 5.
Geometry – properties of shape	3	Shape	6	3D Shapes	There is no specific ELG related to this unit. This unit supports the Development Matters statement Select, rotate and manipulate shapes in order to develop spatial reasoning.
			7	2D Shapes	
Number – addition and subtraction	4	Change within 5	8	One more	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
			9	One Less	

Number – addition and subtraction	5	Number bonds within 5	10	Introducing the part-whole model	Have a deep understanding of number to 10, including the composition of each number. Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds to 10, including double facts.
Geometry – properties of shape	6	Space	11	Spatial awareness	There is no specific ELG related to this unit. This unit supports the Development Matters statement Select, rotate and manipulate shapes in order to develop spatial reasoning.

Reception Spring Term

Unit	Key vocabulary highlighted in this unit			New vocabulary		
7	one two three four five six seven eight nine ten	ten frame count how many total altogether count forwards count backwards	same different odd one out more fewer collections group dice method	ten frame		
8	more fewer fewest greater greatest different	smaller smallest large largest taller difference	tallest shorter shortest compare how many how many more	how many more		
9	count part whole altogether how many	total addition adding together counting	more fewer			
10	larger larger largest bigger small smaller longer longest shorter shortest tall	further furthest heavy heavier heaviest light lighter lightest same different amount	width height weight equal the same balanced balance scale estimate predict check measure	longer shorter taller heavier lighter length weight balance scale		

	taller tallest	widest thinnest length	compare order			
11	group count counters how many altogether how many more how many fewer more than	fewer than less than each ten frame part-whole model whole number bonds to 10	part bead string missing number one more one less add			
12	altogether take away how many number bond whole	part total recombine leave group	subtract add left count break make			
13	next continue pattern patterns repeat repeats unit of repeat core	cube round complex size shape colour action elements	bigger smaller same different tall short stripes squares	repeat repeats pattern		

Strand	Unit	Unit title	Week	Week title	Early Learning Goal
Number – number and place value	7	Numbers to 10	1	Counting to 6, 7 and 8	Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5. Verbally count, (recognising the pattern of the counting system).
			2	Counting to 9 and 10	
Number – number and place value	8	Comparing numbers within 10	3	Comparing groups up to 10	Have a deep understanding of number to 10, including the composition of each number.

					Subitise (recognise quantities without counting) up to 5. Compare quantities up to 10 in different contexts, (recognising when one quantity is greater than, less than or the same as the other quantity).
Number – addition and subtraction	9	Addition to 10	4	Combining 2 groups to find the whole	Have a deep understanding of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5. Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
Number – number and place value	10	Measure	5	Length, height and distance	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
			6	Weight	
Number – addition and subtraction	11	Number bonds to 10	7	Using a ten frame	Have a deep understanding,of number to 10, including the composition of each number. Subitise (recognise quantities without counting) up to 5. Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.
			8	The part-whole model to 10	
Number –	12	Subtraction	9	Subtraction	Have a deep understanding of number to 10,

addition and subtraction					including the composition of each number.
Geometry – properties of shape	13	Exploring patterns	10	Making simple patterns	There is no specific ELG related to this unit. This unit supports the Development Matters statement Select, rotate and manipulate shapes in order to develop spatial reasoning.
			11	Exploring more complex patterns	

Reception Summer Term

Unit	Key vocabulary highlighted in this unit			New vocabulary		
14	number count on count back move forwards go back jump back jump backwards more number track dice	less before after add take away forwards backwards direction largest smallest possibilities	moves jumps start stop first then now finish altogether total			
15	eleven twelve thirteen fourteen fifteen sixteen seventeen eighteen order	nineteen twenty count count on count back forwards backwards represent compare	show more less fewer how many altogether largest smallerst			
16	double equal groups double facts doubling more same different continue pattern next predict	count groups more fewer less amount teams five frame counters dice domino	number track represent half halving share fair share equal each uneven unequal fair	double equal groups half share odd even		

	how many altogether		solution			
17	puzzle triangle square fold	open count how many build	turn same different			
18	full nearly full not full half full empty nearly empty half empty more most less least	same equal different amount fill pour empty wide wider widest nothing none	tall thin short fat estimate predict measure check compare narrow narrowest	full empty		
19	sort group object same different odd one out describe	size shape colour pattern triangle square explain	bigger smaller counter cube how many more than	describe		
20	first next later	than before after	every day time	later		

Strand	Unit	Unit title	Week	Week title	Early Learning Goal
Number – addition and subtraction	14	Counting on and counting back	1	Adding by counting on	Have a deep understanding of number to 10, including the composition of each number.
			2	Taking away by counting back	
Number – number	15	Numbers to 20	3	Counting to and from 20	Verbally count beyond 20, recognising the

and place value					pattern of the counting system.
Number – multiplication and division	16	Numerical patterns	4	Doubling	Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.
			5	Halving and sharing	
			6	Odds and evens	
Geometry – properties of shape	17	Shape	7	Composing and decomposing shapes	There is no specific ELG related to this unit. This unit supports the Development Matters statement Select, rotate and manipulate shapes in order to develop spatial reasoning.
Number – number and place value	18	Measure	8	Volume and capacity	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
Number – addition and subtraction	19	Sorting (optional)	9	Sorting into 2 groups	This unit is optional because sorting is not covered in the EYFS Framework or Development Matters guidance for Reception. It does provide an introduction to the concept of sorting, which will be useful in Year 1.
Measurement	20	Time (optional)	10	My day	This unit is optional because time is not covered in the EYFS Framework or Development Matters guidance for Reception. It does provide a useful introduction to time, which will be covered in Year 1.

Textbook: 1A

Unit	Key vocabulary highlighted in this unit			New vocabulary		
1	sort group digit count back count on one more	greater than equal to one less matched fewer	most least fewest greatest number line	sort group number track digit pattern one more	matched fewer greater than (>) less than (<) equal to (=) number line	most least fewest greatest one less
2	group	part-whole model number sentence		plus part-whole model whole	part number sentence	
3	altogether in total	plus add		altogether add	in total count on	missing part
4	How many are left? take away subtract	count backwards How many more?	How many fewer? difference	How many are left? in total taken away subtract	part subtraction addition count backwards	How many more? How many fewer? difference count on
5	3D shape cube cuboid sphere	pyramid cylinder cone 2D shape	circle triangle rectangle face pattern	3D cube cuboid sphere	pyramid cylinder cone 2D repeated	circle triangle square rectangle face

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective
Number – number and place value	1	Numbers to 10	1	Sort objects	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
Number – number and place value	1	Numbers to 10	2	Count objects to 10	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number

Number – number and place value	1	Numbers to 10	3	Represent numbers to 10	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
Number – number and place value	1	Numbers to 10	4	Count objects from a larger group	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
Number – number and place value	1	Numbers to 10	5	Count on from any number	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
Number – number and place value	1	Numbers to 10	6	One more	given a number, identify one more and one less
Number – number and place value	1	Numbers to 10	7	Count backwards from 10 to 0	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
Number – number and place value	1	Numbers to 10	8	One less	given a number, identify one more and one less
Number – number and place value	1	Numbers to 10	9	Compare groups	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
Number – number and place value	1	Numbers to 10	10	Fewer or more?	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
Number – number and place value	1	Numbers to 10	11	<, > or =	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
Number – number and place value	1	Numbers to 10	12	Compare numbers	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
Number – number and place value	1	Numbers to 10	13	Order objects and numbers	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
Number – number and place value	1	Numbers to 10	14	The number line	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
Number – addition and subtraction	2	Part-whole within 10	1	Parts and wholes	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
Number – addition and subtraction	2	Part-whole within 10	2	The part-whole model	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	2	Part-whole within 10	3	Write number sentences	read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs
Number – addition and subtraction	2	Part-whole within 10	4	Fact families – addition facts	read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs
Number – addition and subtraction	2	Part-whole within 10	5	Number bonds	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	2	Part-whole within 10	6	Find number bonds	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	2	Part-whole within 10	7	Number bonds to 10	represent and use number bonds and related subtraction facts within 20
Number –	3	Addition within 10	1	Add together	represent and use number bonds

addition and subtraction					and related subtraction facts within 20
Number – addition and subtraction	3	Addition within 10	2	Add more	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	3	Addition within 10	3	Addition problems	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = – 9.
Number – addition and subtraction	3	Addition within 10	4	Find the missing number	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	4	Subtraction within 10	1	How many are left? (1)	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	4	Subtraction within 10	2	How many are left? (2)	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	4	Subtraction within 10	3	Break apart (1)	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	4	Subtraction within 10	4	Break apart (2)	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	4	Subtraction within 10	5	Fact families	represent and use number bonds and related subtraction facts within 20
Number – addition and subtraction	4	Subtraction within 10	6	Subtraction on a number line	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = – 9.
Number –	4	Subtraction within 10	7	Add or subtract 1 or 2	add and subtract one-digit and two-digit

addition and subtraction					numbers to 20, including zero
Number – addition and subtraction	4	Subtraction within 10	8	Solve word problems – addition and subtraction	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = – 9.
Geometry – properties of shape	5	2D and 3D Shapes	1	Recognise and name 3D shapes	recognise and name common 2D and 3D shapes, including: 3D shapes [for example, cuboids (including cubes), pyramids and spheres].
Geometry – properties of shape	5	2D and 3D Shapes	2	Sort 3D shapes	recognise and name common 2D and 3D shapes, including: 3D shapes [for example, cuboids (including cubes), pyramids and spheres].
Geometry – properties of shape	5	2D and 3D Shapes	3	Recognise and name 2D shapes	Recognise and name common 2D and 3D shapes, including: 2D shapes [for example, rectangles (including squares), circles and triangles].
Geometry – properties of shape	5	2D and 3D Shapes	4	Sort 2D shapes	Recognise and name common 2D and 3D shapes, including: 2D shapes [for example, rectangles (including squares), circles and triangles].
Geometry – properties of shape	5	2D and 3D Shapes	5	Make patterns with shapes	recognise and name common 2D and 3D shapes, including: 3D shapes [for example, cuboids (including cubes), pyramids and spheres].

Textbook: 1B

Unit	Key vocabulary highlighted in this unit			New vocabulary		
6	one more one less	order		tens (10s) ones (1s)	more fewer	order smallest
7	add altogether	ones (1s) tens (10s)	number bond part-whole	Predict		
8	tens ones	compare order	less than (<) greater than (>)			
9	long, longer, longest short, shorter, shortest tall, taller, tallest	length height	compare measure	shorter taller longest	shortest distance	ruler centimetre
10	heavier, heaviest lighter, lightest capacity	balance scales full empty compare	weight, weigh balanced measure estimate	heavier lighter balance scales	balanced weigh weight heaviest	lightest full empty capacity

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Number – number and place value	6	Numbers to 20	1	Count to 20	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (to 20)
Number – number and place value	6	Numbers to 20	2	Understand 10	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (to 20)
Number – number and place value	6	Numbers to 20	3	11, 12 and 13	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
Number – number and place value	6	Numbers to 20	4	14, 15 and 16	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
Number – number and place value	6	Numbers to 20	5	17, 18 and 19	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
Number – number and place value	6	Numbers to 20	6	Understand 20	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
Number – number and place value	6	Numbers to 20	7	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
Number – number and place value	6	Numbers to 20	8	The number line to 20	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
Number – number and place value	6	Numbers to 20	9	Label number lines	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
Number – number and place value	6	Numbers to 20	10	Estimate on a number line	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
Number – number and place value	6	Numbers to 20	11	Compare numbers to 20	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
Number – number and place value	6	Numbers to 20	12	Order numbers to 20	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (to

					20)
Number – addition and subtraction	7	Addition and subtraction within 20	1	Add by counting on within 20	add and subtract one-digit and two-digit numbers to 20, including zero
Number – addition and subtraction	7	Addition and subtraction within 20	2	Add ones using number bonds	Represent and use number bonds and related subtraction facts within 20 (within 10)
Number – addition and subtraction	7	Addition and subtraction within 20	3	Find and make number bonds to 20	Represent and use number bonds and related subtraction facts within 20 (within 10)
Number – addition and subtraction	7	Addition and subtraction within 20	4	Doubles	Represent and use number bonds and related subtraction facts within 20 (within 10)
Number – addition and subtraction	7	Addition and subtraction within 20	5	Near doubles	Represent and use number bonds and related subtraction facts within 20 (within 10)
Number – addition and subtraction	7	Addition and subtraction within 20	6	Subtract ones using number bonds	add and subtract one-digit and two-digit numbers to 20, including zero
Number – addition and subtraction	7	Addition and subtraction within 20	7	Subtraction – counting back	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = – 9.
Number – addition and subtraction	7	Addition and subtraction within 20	8	Subtraction – finding the difference	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = – 9.
Number – addition and subtraction	7	Addition and subtraction within 20	9	Related facts	Represent and use number bonds and related subtraction facts within 20 (within 10)
Number – addition and	7	Addition and subtraction within 20	10	Missing number problems	solve one-step problems that involve addition and subtraction, using concrete objects and

subtraction					pictorial representations, and missing number problems such as 7 = – 9.
Number – addition and subtraction	7	Addition and subtraction within 20	11	Solve word and picture problems – addition and subtraction	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = – 9.
Number – number and place value	8	Numbers to 50	1	Count to 50	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
Number – number and place value	8	Numbers to 50	2	Numbers to 50	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
Number – number and place value	8	Numbers to 50	3	20,30, 40 and 50	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
Number – number and place value	8	Numbers to 50	4	Count by making groups of 10s	identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than
Number – number and place value	8	Numbers to 50	5	Groups of 10s and 1s	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
Number – number and place value	8	Numbers to 50	6	Partition into 10s and 1s	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
Number – number and place value	8	Numbers to 50	7	One more, one less	given a number, identify one more and one less
Measurement	9	Introducing length and height	1	Compare lengths and heights	compare, describe and solve practical problems for: lengths and heights [for

					example, long/short, longer/shorter, tall/short, double/half]
Measurement	9	Introducing length and height	2	Measure length (non-standard units of measure)	measure and begin to record the following: lengths and heights
Measurement	9	Introducing length and height	3	Measure length (using a ruler)	measure and begin to record the following: lengths and heights
Measurement	9	Introducing length and height	4	Solve word problems – length	compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]
Measurement	10	Introducing weight and volume	1	Heavier and lighter	compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]
Measurement	10	Introducing weight and volume	2	Measure mass	measure and begin to record the following: mass/weight
Measurement	10	Introducing weight and volume	3	Compare mass	compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]
Measurement	10	Introducing weight and volume	4	Full and empty	compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
Measurement	10	Introducing weight and volume	5	Measure capacity	measure and begin to record the following: capacity and volume
Measurement	10	Introducing weight and volume	6	Compare capactiy	compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
Measurement	10	Introducing weight and volume	7	Solve word problems – mass and capacity	compare, describe and solve practical problems for: capacity and volume [for example,

					full/empty, more than, less than, half, half full, quarter]

Textbook: 1C

Unit	Key vocabulary highlighted in this unit			New vocabulary		
11	equal groups array	row column	double twice	equal groups row	array column	double twice
12	half	halves	quarter	half	halves	quarter
13	turn half turn quarter turn three-quarter turn whole turn down	position left right forwards backwards in between	above below top middle bottom up	half turn turn quarter turn three-quarter turn position in between	whole turn left right forwards above	top middle bottom below up down
14	100 square	number square	place value grid	100 square	number square	place value grid
15	pound pence	coin note	pence (p)	pound pence	coin note	pence (p)
16	before after yesterday today tomorrow day week	slower faster month year calendar date minute hand	hour hand o'clock half past second minute hour	before after yesterday today tomorrow day	week date calendar year month minute hand o'clock hour hand	hour half past second minute faster slower

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Number – multiplication and division	11	Multiplication and division	1	Count in 2s	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
Number – multiplication and division	11	Multiplication and division	2	Count in 10s	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
Number – multiplication and	11	Multiplication and division	3	Count in 5s	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and

division					tens
Number – multiplication and division	11	Multiplication and division	4	Make equal groups	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.
Number – multiplication and division	11	Multiplication and division	5	Add equal groups	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.
Number – multiplication and division	11	Multiplication and division	6	Make arrays	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.
Number – multiplication and division	11	Multiplication and division	7	Make doubles	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.
Number – multiplication and division	11	Multiplication and division	8	Make equal groups – grouping	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.
Number – multiplication and division	11	Multiplication and division	9	Make equal groups – sharing	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.
Number – fractions	12	Halves and quarters	1	Recognise and find a half of a shape	recognise, find and name a half as one of two equal parts of an object, shape or quantity
Number – fractions	12	Halves and quarters	2	Recognise and find a half of a quantity	recognise, find and name a half as one of two equal parts of an object, shape or quantity
Number –	12	Halves and quarters	3	Recognise and find a quarter of a shape	recognise, find and name a quarter as one of

fractions					four equal parts of an object, shape or quantity.
Number – fractions	12	Halves and quarters	4	Recognise and find a quarter of a quantity	recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.
Geometry – position and direction	13	Position and direction	1	Describe turns	describe position, direction and movement, including whole, half, quarter and three-quarter turns
Geometry – position and direction	13	Position and direction	2	Describe position – left and right	Non statutory guidance: Pupils use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside.
Geometry – position and direction	13	Position and direction	3	Describe position – forwards and backwards	Non statutory guidance: Pupils use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside.
Geometry – position and direction	13	Position and direction	4	Describe position – above and below	Non statutory guidance: Pupils use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside.
Geometry – position and direction	13	Position and direction	5	Ordinal numbers	Non-statutory guidance: Pupils practise counting (1, 2, 3…), ordering (for example, first, second, third…), and to indicate a quantity (for example, 3 apples, 2 centimetres), including solving simple concrete problems, until they are fluent.
Number – number and place value	14	Numbers to 100	1	Count from 50 to 100	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and

					tens
Number – number and place value	14	Numbers to 100	2	10s to 100	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
Number – number and place value	14	Numbers to 100	3	Partition into 10s and 1s	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
Number – number and place value	14	Numbers to 100	4	Number line to 100	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
Number – number and place value	14	Numbers to 100	5	One more and one less	given a number, identify one more and one less
Number – number and place value	14	Numbers to 100	6	Compare numbers	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
Measurement	15	Money	1	Recognising coins	recognise and know the value of different denominations of coins and notes
Measurement	15	Money	2	Recognising notes	recognise and know the value of different denominations of coins and notes
Measurement	15	Money	3	Counting in coins	recognise and know the value of different denominations of coins and notes
Measurement	16	Time	1	Before and after	sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]
Measurement	16	Time	2	Days of the week	recognise and use language relating to dates,

					including days of the week, weeks, months and years
Measurement	16	Time	3	Months of the year	recognise and use language relating to dates, including days of the week, weeks, months and years
Measurement	16	Time	4	Tell the time to the hour	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times
Measurement	16	Time	5	Tell the time to the half hour	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times

Textbook: 2A

Unit	Key vocabulary highlighted in this unit			New vocabulary		
1	tens ones place value grid	partition more fewer	fewest greatest smallest			
2	fact family number sentence	number bond column	10 more 10 less	10 more 10 less		
3	total tens ones	subtract difference	bar model represent			
4	quadrilateral polygon prism hexagon	octagon vertex vertices hemisphere	symmetry line of symmetry symmetrical curved surface	quadrilateral polygon pentagon hexagon vertex	vertices line of symmetry symmetrical octagon	hemisphere curved surface edge prism

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective
Number – number and place value	1	Numbers to 100	1	Numbers to 20	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (Year 1)
Number – number and place value	1	Numbers to 100	2	Count in 10s	Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens (Year 1)
Number – number and place value	1	Numbers to 100		Count in 10s and 1s	Recognise the place value of each digit in a two-digit number (tens, ones)
Number – number and place value	1	Numbers to 100	3	Recognise 10s and 1s	Recognise the place value of each digit in a two-digit number (tens, ones)
Number – number and place value	1	Numbers to 100	4	Build a number from 10s and 1s	Recognise the place value of each digit in a two-digit number (tens, ones)
Number – number and place value	1	Numbers to 100	5	Use a place value grid	Recognise the place value of each digit in a two-digit number (tens, ones)

Number – number and place value	1	Numbers to 100	6	Partition numbers to 100	Recognise the place value of each digit in a two-digit number (tens, ones)
Number – number and place value	1	Numbers to 100	7	Partition numbers flexibly within 100	Recognise the place value of each digit in a two-digit number (tens, ones)
Number – number and place value	1	Numbers to 100	8	Write numbers to 100 in expanded form	Recognise the place value of each digit in a two-digit number (tens, ones)
Number – number and place value	1	Numbers to 100	9	10s on a number line to 100	identify, represent and estimate numbers using different representations, including the number line
Number – number and place value	1	Numbers to 100	10	10s and 1s on a number line to 100	Recognise the place value of each digit in a two-digit number (tens, ones)
Number – number and place value	1	Numbers to 100	11	Estimate numbers on a number line	identify, represent and estimate numbers using different representations, including the number line
Number – number and place value	1	Numbers to 100	12	Compare numbers (1)	compare and order numbers from 0 up to 100; use <, > and = signs
Number – number and place value	1	Numbers to 100	13	Compare numbers (2)	compare and order numbers from 0 up to 100; use <, > and = signs
Number – number and place value	1	Numbers to 100	14	Order numbers	compare and order numbers from 0 up to 100; use <, > and = signs
Number – number and place value	1	Numbers to 100	15	Count in 2s, 5s and 10s	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
Number – number and place value	1	Numbers to 100	16	Count in 3s	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
Number – addition and subtraction	2	Addition and subtraction (1)	1	Fact families	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Number – addition and subtraction	2	Addition and subtraction (1)	2	Learn number bonds	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Number –	2	Addition and subtraction	3	Add and subtract two multiples of 10	recall and use addition and subtraction facts to

addition and subtraction		(1)			20 fluently, and derive and use related facts up to 100
Number – addition and subtraction	2	Addition and subtraction (1)	4	Complements to 100 (tens)	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Number – addition and subtraction	2	Addition and subtraction (1)	5	Add and subtract 1s	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones
Number – addition and subtraction	2	Addition and subtraction (1)	6	Add by making 10	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and subtraction	2	Addition and subtraction (1)	7	Add using a number line	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and subtraction	2	Addition and subtraction (1)	8	Add three 1-digit numbers	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: adding three one-digit
Number – addition and subtraction	2	Addition and subtraction (1)	9	Add to the next 10	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones
Number – addition and subtraction	2	Addition and subtraction (1)	10	Add across a ten	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones
Number – addition and subtraction	2	Addition and subtraction (1)	11	Subtract across 10	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones
Number – addition and subtraction	2	Addition and subtraction (1)	12	Subtract from a 10	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and	2	Addition and subtraction (1)	13	Subtract a 1-digit number from a 2- digit number – across 10	add and subtract numbers using concrete objects, pictorial representations, and mentally,

subtraction					including: a two-digit number and ones
Number – addition and subtraction	3	Addition and subtraction (2)	1	10 more, 10 less	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
Number – addition and subtraction	3	Addition and subtraction (2)	2	Add and subtract 10s	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and tens
Number – addition and subtraction	3	Addition and subtraction (2)	3	Add two 2-digit numbers – add 10s and add 1s	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and subtraction	3	Addition and subtraction (2)	4	Add two 2-digit numbers – add more 10s then more 1s	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and subtraction	3	Addition and subtraction (2)	5	Subtract a 2-digit number from a 2- digit number – not across 10	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and subtraction	3	Addition and subtraction (2)	6	Subtract a 2-digit number from a 2- digit number – across 10	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and subtraction	3	Addition and subtraction (2)	7	How many more? How many fewer?	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two two-digit numbers
Number – addition and subtraction	3	Addition and subtraction (2)	8	Subtraction – find the difference	solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures
Number – addition and subtraction	3	Addition and subtraction (2)	9	Compare number sentences	solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures
Number – addition and	3	Addition and subtraction (2)	10	Missing number problems	solve problems with addition and subtraction: using concrete objects and pictorial

subtraction					representations, including those involving numbers, quantities and measures
Number – addition and subtraction	3	Addition and subtraction (2)	11	Mixed addition and subtraction	solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures
Number – addition and subtraction	3	Addition and subtraction (2)	12	Two-step problems	solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures
Geometry – properties of shape	4	Properties of shapes	1	Recognise 2D and 3D shapes	compare and sort common 2D and 3D shapes and everyday objects.
Geometry – properties of shape	4	Properties of shapes	2	Count sides on 2D shapes	identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line
Geometry – properties of shape	4	Properties of shapes	3	Count vertices on 2D shapes	identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line
Geometry – properties of shape	4	Properties of shapes	4	Draw 2D shapes	identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line
Geometry – properties of shape	4	Properties of shapes	5	Lines of symmetry on shapes	identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line
Geometry – properties of shape	4	Properties of shapes	6	Sort 2D shapes	compare and sort common 2-D and 3-D shapes and everyday objects
Geometry – properties of shape	4	Properties of shapes	7	Make patterns with 2D shapes	order and arrange combinations of mathematical objects in patterns and sequences
Geometry –	4	Properties of shapes	8	Count faces on 3D shapes	identify and describe the properties of 3D

properties of shape					shapes, including the number of edges, vertices and faces
Geometry – properties of shape	4	Properties of shapes	9	Count edges on 3D shapes	identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
Geometry – properties of shape	4	Properties of shapes	10	Count vertices on 3D shapes	identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
Geometry – properties of shape	4	Properties of shapes	11	Sort 3D shapes	compare and sort common 2D and 3D shapes and everyday objects
Geometry – properties of shape	4	Properties of shapes	12	Make patterns with 3D shapes	order and arrange combinations of mathematical objects in patterns and sequences

Textbook: 2B

Unit	Key vocabulary highlighted in this unit			New vocabulary		
5	pound (£) pence (p)	coin note	change	£ change		
6	Equal groups multiplication times	divide (÷) division share	grouping unequal array	divide (÷)		
7	divide (÷) division share	group odd	even times-table	even	odd	
8	length centimetre (cm) metre (m)	longer shorter metre stick	height width compare distance	metre		
9	mass balance weighing scales gram (g) kilogram (kg)	litre (l) millilitre (ml) volume capacity temperature	thermometer degrees Celsius (°C) estimate approximation	mass heavier than lighter than gram (g)	hundreds kilogram (kg) volume millilitre (ml)	litre (l) temperature degrees Celsius (°C) thermometer

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Measurement	5	Money	1	Count money – pence	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
Measurement	5	Money	2	Count money – pounds (notes and	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
Measurement	5	Money	3	Count money – pounds and penc	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value

Measurement	5	Money	4	Choose notes and coins	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
Measurement	5	Money	5	Make the same amount	find different combinations of coins that equal the same amounts of money
Measurement	5	Money	6	Compare amounts of money	solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
Measurement	5	Money	7	Calculate with money	solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
Measurement	5	Money	8	Make £1	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
Measurement	5	Money	9	Find change	solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
Measurement	5	Money	10	Two-step problems	solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
Number – multiplication and division	6	Multiplication and division (1)	1	Recognise equal groups	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and division	6	Multiplication and division (1)	2	Make equal groups	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and	6	Multiplication and division (1)	3	Add equal groups	solve problems involving multiplication and division, using materials, arrays, repeated

division					addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and division	6	Multiplication and division (1)	4	The x symbol	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
Number – multiplication and division	6	Multiplication and division (1)	5	Multiplication sentences	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and division	6	Multiplication and division (1)	6	Use arrays	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and division	6	Multiplication and division (1)	7	Make equal groups – grouping	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and division	6	Multiplication and division (1)	8	Make equal groups – sharing	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and division	7	Multiplication and division (2)	1	2 times-table	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Number – multiplication and	7	Multiplication and division (2)	2	Divide by 2	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables,

division					including recognising odd and even numbers
Number – multiplication and division	7	Multiplication and division (2)	3	Doubling and halving	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Number – multiplication and division	7	Multiplication and division (2)	4	Odd and even numbers	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Number – multiplication and division	7	Multiplication and division (2)	5	10 times-table	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Number – multiplication and division	7	Multiplication and division (2)	6	Divide by 10	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Number – multiplication and division	7	Multiplication and division (2)	7	5 times-table	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Number – multiplication and division	7	Multiplication and division (2)	8	Divide by 5	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Number – multiplication and division	7	Multiplication and division (2)	9	Bar modelling – grouping	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – multiplication and division	7	Multiplication and division (2)	10	Bar modelling – sharing	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Measurement	8	Length and height	1	Measure in cm	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C);

					capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Measurement	8	Length and height	2	Measure in m	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Measurement	8	Length and height	3	Compare lengths and heights	compare and order lengths, mass, volume/capacity and record the results using >, < and =
Measurement	8	Length and height	4	Order lengths and heights	compare and order lengths, mass, volume/capacity and record the results using >, < and =
Measurement	8	Length and height	5	Four operations with lengths and heights	solve problems with addition and subtraction:using concrete objects and pictorial representations, including those involving numbers, quantities and measures
Measurement	9	Mass, capacity and temperature	1	Compare mass	compare and order lengths, mass, volume/capacity and record the results using >, < and =
Measurement	9	Mass, capacity and temperature	2	Measure in grams	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Measurement	9	Mass, capacity and temperature	3	Measure in kilograms	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and

					measuring vessels
Measurement	9	Mass, capacity and temperature	4	Compare volume and capacity	compare and order lengths, mass, volume/capacity and record the results using>, < and =
Measurement	9	Mass, capacity and temperature	5	Measure in millilitres	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Measurement	9	Mass, capacity and temperature	6	Measure in litres	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Measurement	9	Mass, capacity and temperature	7	Measure temperature using a thermometer	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Measurement	9	Mass, capacity and temperature	8	Read thermometers	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels

Textbook: 2C

Unit	Key vocabulary highlighted in this unit			New vocabulary		
10	tally chart	pictogram	key	pictogram	key	
11	half (½) quarter ¼ whole third 1/3	equivalent equal parts numerator denominator	fraction bar non-unit fraction unit fraction	whole equal equal parts ½ ¼ 1/3 ¾	fraction denominator fraction bar numerator	third unit fraction non-unit fraction equivalent
12	clockwise anticlockwise forwards	backwards left right middle	turn half turn quarter turn three-quarter turn	clockwise anticlockwise		
13	o'clock half past quarter past	quarter to minute hand	hour hand duration	quarter past quarter to duration		
14	number fact calculate mentally	bar model number line	part-whole model 100 square	partition calculate mentally		

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Statistics	10	Statistics	1	Make tally charts	interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Statistics	10	Statistics	2	Tables	interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Statistics	10	Statistics	3	Block diagrams	interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Statistics	10	Statistics	4	Draw pictograms (1-1)	interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Statistics	10	Statistics	5	Interpret picograms (1-1)	ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity

Statistics	10	Statistics	6	Draw pictograms (2, 5 and 10)	interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Statistics	10	Statistics	7	Interpret pictograms (2, 5 and 10)	ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
Number – fractions	11	Fractions	1	Introducing parts and wholes	recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1)
Number – fractions	11	Fractions	2	Equal and unequal parts	recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1)
Number – fractions	11	Fractions	3	Recognise a half	recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1)
Number – fractions	11	Fractions	4	Find a half	Recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1)
Number – fractions	11	Fractions	5	Recognise a quarter	Recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1)
Number – fractions	11	Fractions	6	Find a quarter	Recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1)
Number – fractions	11	Fractions	7	Thirds	recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity
Number – fractions	11	Fractions	8	Find the whole	recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity
Number – fractions	11	Fractions	9	Unit and non-unit fractions	write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.
Number –	11	Fractions	10	Recognise the equivalence of a half and 2	write simple fractions for example, 1/2 of 6 = 3

fractions				quarters	and recognise the equivalence of 2/4 and 1/2.
Number – fractions	11	Fractions	11	Recognise three quarters	recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity
Number – fractions	11	Fractions	12	Count in fractions up to a whole	Non-statutory guidance: Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line (for example, 1 1/4 , 1 2/4 (or 1 1/2), 1 3/4 , 2).
Geometry – position and direction	12	Position and direction	1	Language of position	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).
Geometry – position and direction	12	Position and direction	2	Describe movement	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).
Geometry – position and direction	12	Position and direction	3	Describe turns	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).
Geometry – position and direction	12	Position and direction	4	Describe movement and turns	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).

Geometry – position and direction	12	Position and direction	5	Shape patterns with turns	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).
Measurement	13	Time	1	O'clock and half past	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times (Year 1)
Measurement	13	Time	2	Quarter past and quarter to	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
Measurement	13	Time	3	Tell the time to 5 minutes	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
Measurement	13	Time	4	Minutes in an hour	know the number of minutes in an hour and the number of hours in a day
Measurement	13	Time	5	Hours in a day	know the number of minutes in an hour and the number of hours in a day
Number – addition and subtraction	14	Problem solving and efficient methods	1	My way, your way!	use place value and number facts to solve problems
Number – addition and subtraction	14	Problem solving and efficient methods	2	Using number facts	use place value and number facts to solve problems
Number – addition and subtraction	14	Problem solving and efficient methods	3	Using a 100 square	use place value and number facts to solve problems
Number – addition and subtraction	14	Problem solving and efficient methods	4	Getting started	use place value and number facts to solve problems
Number –	14	Problem solving and	5	Missing numbers	recognise and use the inverse relationship

addition and subtraction		efficient methods			between addition and subtraction and use this to check calculations and solve missing number problems.
Number – addition and subtraction	14	Problem solving and efficient methods	6	Mental addition and subtraction (1)	use place value and number facts to solve problems
Number – addition and subtraction	14	Problem solving and efficient methods	7	Mental addition and subtraction (2)	use place value and number facts to solve problems
Number – addition and subtraction	14	Problem solving and efficient methods	8	Efficient subtraction	solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures
Number – addition and subtraction	14	Problem solving and efficient methods	9	Solving problems – addition and subtraction	use place value and number facts to solve problems
Number – addition and subtraction	14	Problem solving and efficient methods	10	Solving problems – multiplication and division	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Number – addition and subtraction	14	Problem solving and efficient methods	11	Solving problems – using the four operations	use place value and number facts to solve problems

Textbook: 3A

Unit	Key vocabulary highlighted in this unit			New vocabulary		
1	hundreds (100s) tens (10s) ones (1s) place value	more less greater than (>) less than (<)	equal to order compare estimate exchange	estimate exchange		
2	addition subtraction	mental method column method	exchange			
3	exchange column method mental method	estimate approximate	digit multiple	multiple approx. approximately		
4	equal multiply divide times-table	sharing grouping array bar model	remainder repeated addition multiplication sentence division statement division fact	multiplication sentence repeated addition	division statement times-table	remainder division fact
5	multiplication division statement number sentence compare equally	more than (>) less than (<) greater than (>) equals (=) least	remainder share partition multi-step most			

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective
Number – number and place value	1	Place value within 1,000	1	Represent and partition numbers to 100	Recognise the place value of each digit in a two-digit number (tens, ones) (Year 2)
Number – number and place value	1	Place value within 1,000	2	Number line to 100	Compare and order numbers up to 1,000
Number –	1	Place value within	3	100s	Count from 0 in multiples of 4, 8, 50

number and place value		1,000			and 100; find 10 or 100 more or less than a given number
Number – number and place value	1	Place value within 1,000	4	Represent numbers to 1,000	Identify, represent and estimate numbers using different representations
Number – number and place value	1	Place value within 1,000	5	Partition numbers to 1,000	Recognise the place value of each digit in a three-digit number (100s, 10s, 1s),
Number – number and place value	1	Place value within 1,000	6	Partition numbers to 1,000 flexibly	Recognise the place value of each digit in a three-digit number (100s, 10s, 1s),
Number – number and place value	1	Place value within 1,000	7	100s, 10s and 1s	Recognise the place value of each digit in a three-digit number (100s, 10s, 1s)
Number – number and place value	1	Place value within 1,000	8	Use a number line to 1,000	Identify, represent and estimate numbers using different representations
Number – number and place value	1	Place value within 1,000	9	Estimate on a number line to 1,000	Identify, represent and estimate numbers using different representations
Number – number and place value	1	Place value within 1,000	10	Find 1, 10 and 100 more or less	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
Number – number and place value	1	Place value within 1,000	11	Compare numbers to 1,000	compare and order numbers up to 1,000
Number – number and place value	1	Place value within 1,000	12	Order numbers to 1,000	compare and order numbers up to 1,000
Number – number and place value	1	Place value within 1,000	13	Count in 50s	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number

Number – addition and subtraction	2	Addition and subtraction (1)	1	Apply number bonds within 10	Recognise the place value of each digit in a two-digit number (10s, 1s) (Year 2)
Number – addition and subtraction	2	Addition and subtraction (1)	2	Add/subtract 1s	add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds
Number – addition and subtraction	2	Addition and subtraction (1)	3	Add/subtract 10s	add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds
Number – addition and subtraction	2	Addition and subtraction (1)	4	Add/subtract 100s	add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds
Number – addition and subtraction	2	Addition and subtraction (1)	5	Spot the pattern	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	2	Addition and subtraction (1)	6	Add 1s across 10	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	2	Addition and subtraction (1)	7	Add 10s across 100	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	2	Addition and subtraction (1)	8	Subtract 1s across 10	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	2	Addition and subtraction (1)	9	Subtract 10s across 100	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and	2	Addition and subtraction (1)	10	Make connections	solve problems, including missing number problems, using number facts, place value,

subtraction					and more complex addition and subtraction.
Number – addition and subtraction	3	Addition and subtraction (2)	1	Add two numbers	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	2	Subtract two numbers	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	3	Add two numbers (across 10)	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	4	Add two numbers (across 100)	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	5	Subtract two numbers (across 10)	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	6	Subtract two numbers (across 100)	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	7	Add a 3-digit and a 2-digit number	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	8	Subtract a 2-digit number from a 3-digit number	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	9	Complements to 100	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
Number – addition and subtraction	3	Addition and subtraction (2)	10	Estimate answers	estimate the answer to a calculation and use inverse operations to check answers

Number – addition and subtraction	3	Addition and subtraction (2)	11	Inverse operations	estimate the answer to a calculation and use inverse operations to check answers
Number – addition and subtraction	3	Addition and subtraction (2)	12	Problem solving (1)	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
Number – addition and subtraction	3	Addition and subtraction (2)	13	Problem solving (2)	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
Number – multiplication and division	4	Multiplication and division (1)	1	Multiplication – equal groups	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	4	Multiplication and division (1)	2	Use arrays	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	4	Multiplication and division (1)	3	Multiples of 2	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

Number – multiplication and division	4	Multiplication and division (1)	4	Multiples of 5 and 10	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	4	Multiplication and division (1)	5	Share and group	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	5	Multiplication and division (2)	1	Multiply by 3	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication and division	5	Multiplication and division (2)	2	Divide by 3	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication and division	5	Multiplication and division (2)	3	The 3 times-table	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication and division	5	Multiplication and division (2)	4	Multiply by 4	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication and division	5	Multiplication and division (2)	5	Divide by 4	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication	5	Multiplication and division (2)	6	The 4 times-table	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

and division					
Number – multiplication and division	5	Multiplication and division (2)	7	Multiply by 8	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication and division	5	Multiplication and division (2)	8	Divide by 8	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication and division	5	Multiplication and division (2)	9	The 8 times-table	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Number – multiplication and division	5	Multiplication and division (2)	10	Problem solving – multiplication and division (1)	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – multiplication and division	5	Multiplication and division (2)	11	Problem solving – multiplication and division (2)	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – multiplication and division	5	Multiplication and division (2)	12	Understand divisibility (1)	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – multiplication and division	5	Multiplication and division (2)	13	Understand divisibility (2)	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects

Textbook: 3B

Unit	Key vocabulary highlighted in this unit			New vocabulary		
6	multiplication division statement number sentence share multi-step	compare less than (<) greater than (>) equal (=) equally	least most remainder expanded written method			
7	length height width perimeter distance m cm millimetre (mm) perimeter	centimetre (cm) millimetre (mm) metre (m) unit of measurement measure less than (<)	add subtract multiply equivalent convert greater than (>)	m cm millimetre (mm) perimeter		
8	equal parts whole unit fraction equation integer non-unit fraction	numerator denominator represent share group mixed number	whole number divide set of objects multiply tenth interval	tenth interval mixed number		
9	mass weigh measure	scale interval gram (g)	kilogram (kg)			
10	capacity litre (l)	millilitre (ml) scale	interval convert			

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Number – multiplication and	6	Multiplication and division (3)	1	Multiples of 10	write and calculate mathematical statements for multiplication and division using the

division					multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	6	Multiplication and division (3)	2	Related calculations	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	6	Multiplication and division (3)	3	Reasoning about multiplication	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – multiplication and division	6	Multiplication and division (3)	4	Multiply 2-digits by 1-digit – no exchange	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	6	Multiplication and division (3)	5	Multiply 2-digits by 1-digit – exchange	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	6	Multiplication and division (3)	6	Expanded written method	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

Number – multiplication and division	6	Multiplication and division (3)	7	Link multiplication and division	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – multiplication and division	6	Multiplication and division (3)	8	Divide 2-digits by 1-digit – no exchange	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	6	Multiplication and division (3)	9	Divide 2-digits by 1-digit –flexible partitioning	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	6	Multiplication and division (3)	10	Divide 2-digits by 1-digit with remainders	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
Number – multiplication and division	6	Multiplication and division (3)	11	How many ways?	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – multiplication and division	6	Multiplication and division (3)	12	Problem solving – mixed problems (1)	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects

Number – multiplication and division	6	Multiplication and division (3)	13	Problem solving – mixed problems (2)	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Measurement	7	Length and perimeter	1	Measure in m and cm	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	2	Measure in cm and mm	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	3	Metres, centimetres and millimetres	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	4	Equivalent lengths (m and cm)	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	5	Equivalent lengths (mm and cm)	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	6	Compare lengths	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	7	Add lengths	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	8	Subtract lengths	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	7	Length and perimeter	9	Measure perimeter	measure the perimeter of simple 2D shapes
Measurement	7	Length and perimeter	10	Calculate perimeter	measure the perimeter of simple 2D shapes
Measurement	7	Length and perimeter	11	Problem solving – length	measure the perimeter of simple 2D shapes
Number – fractions	8	Fractions (1)	1	Understand the denominator of unit fractions	recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
Number – fractions	8	Fractions (1)	2	Compare and order unit fractions	recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
Number – fractions	8	Fractions (1)	3	Understand the numerator of non-unit fractions	recognise and use fractions as numbers: unit fractions and non-unit fractions with small

					denominators
Number – fractions	8	Fractions (1)	4	Understand the whole	recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
Number – fractions	8	Fractions (1)	5	Compare and order non-unit fractions	compare and order unit fractions, and fractions with the same denominators
Number – fractions	8	Fractions (1)	6	Divisions on a number line	compare and order unit fractions, and fractions with the same denominators
Number – fractions	8	Fractions (1)	7	Count in fractions on a number line	compare and order unit fractions, and fractions with the same denominators
Number – fractions	8	Fractions (1)	8	Equivalent fractions as bar models	recognise and show, using diagrams, equivalent fractions with small denominators
Number – fractions	8	Fractions (1)	9	Equivalent fractions on a number line	recognise and show, using diagrams, equivalent fractions with small denominators
Number – fractions	8	Fractions (1)	10	Equivalent fractions	recognise and show, using diagrams, equivalent fractions with small denominators
Measurement	9	Mass	1	Use scales	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	9	Mass	2	Measure mass	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	9	Mass	3	Measure mass in kilograms and grams	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	9	Mass	4	Equivalent masses (kg and g)	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	9	Mass	5	Compare mass	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	9	Mass	6	Add and subtract mass	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Measurement	9	Mass	7	Problem solving – mass	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	10	Capacity	1	Measure capacity and volume in millilitres	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	10	Capacity	2	Compare capacity and volume	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	10	Capacity	3	Equivalent capacities and volumes (litres and ml)	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	10	Capacity	4	Compare capacity and volume	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	10	Capacity	5	Add and subtract capacity and volume	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
Measurement	10	Capacity	6	Problem solving – capacity	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Textbook: 3C

Unit	Key vocabulary highlighted in this unit			New vocabulary		
11	equivalent numerator denominator compare add	subtract fraction whole equivalent fraction greater than (>) less than (<)	equal to multiply divide difference inequality statement	equivalent fraction inequality statement		
12	pounds (£) and pence (p)	convert total	difference change			
13	month year midnight midday am pm	duration estimate consecutive hour minute second	past to start end duration digital clock analogue clock	digital ante meridiem (am) post meridiem (pm		
14	right angle acute obtuse parallel perpendicular vertical horizontal triangle	quadrilateral kite trapezium rhombus parallelogram cuboid triangular prism square-based pyramid	cone cylinder sphere edge face vertices clockwise anticlockwise	right angle perpendicular acute	obtuse horizontal vertical parallel	
15	pictogram key bar chart	scale table row	column vertical axis	bar chart vertical axis scale		

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Number – fractions	11	Fractions (2)	1	Add fractions	add and subtract fractions with the same denominator within one whole [for example, 5/7

					+ 1/7 = 6/7]
Number – fractions	11	Fractions (2)	2	Subtract fractions	add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]
Number – fractions	11	Fractions (2)	3	Partitioning the whole	add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]
Number – fractions	11	Fractions (2)	4	Problem solving – adding and subtracting fractions	solve problems that involve all of the above
Number – fractions	11	Fractions (2)	5	Unit fractions of a set of objects	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
Number – fractions	11	Fractions (2)	6	Non-unit fractions of a set of objects	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
Number – fractions	11	Fractions (2)	7	Reasoning with fractions of an amount	recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
Number – fractions	11	Fractions (2)	8	Problem solving – fractions of measures	solve problems that involve all of the above
Measurement	12	Money	1	Pounds and pence	add and subtract amounts of money to give change, using both £ and p in practical contexts
Measurement	12	Money	2	Convert pounds and pence	add and subtract amounts of money to give change, using both £ and p in practical contexts
Measurement	12	Money	3	Add money	add and subtract amounts of money to give change, using both £ and p in practical contexts
Measurement	12	Money	4	Subtract money	add and subtract amounts of money to give change, using both £ and p in practical contexts
Measurement	12	Money	5	Find change	add and subtract amounts of money to give change, using both £ and p in practical contexts
Measurement	13	Time	1	Roman numerals to 12	tell and write the time from an analogue clock, including using Roman numerals

					from I to XII, and 12-hour and 24-hour clocks
Measurement	13	Time	2	Tell the time to 5 minutes	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
Measurement	13	Time	3	Tell the time to the minute	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
Measurement	13	Time	4	Convert past and to the hour	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, a.m./p.m., morning, afternoon, noon and midnight
Measurement	13	Time	5	Using am and pm	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, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year
Measurement	13	Time	6	Years, months and days	
Measurement	13	Time	7	Days and hours	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, a.m./p.m., morning, afternoon, noon and midnight
Measurement	13	Time	8	Hours and minutes – start and end times	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, a.m./p.m., morning, afternoon, noon and midnight
Measurement	13	Time	9	Hours and minutes – durations	compare durations of events [for example to calculate the time taken by particular events or tasks].

Measurement	13	Time	10	Hours and minutes – compare durations	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, a.m./p.m., morning, afternoon, noon and midnight
Measurement	13	Time	11	Minutes and seconds	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, a.m./p.m., morning, afternoon, noon and midnight
Measurement	13	Time	12	Solve problems with 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, a.m./p.m., morning, afternoon, noon and midnight
Geometry – properties of shapes	14	Angles and properties of shapes	1	Turns and angles	recognise angles as a property of shape or a description of a turn
Geometry – properties of shapes	14	Angles and properties of shapes	2	Right angles in shapes	recognise angles as a property of shape or a description of a turn
Geometry – properties of shapes	14	Angles and properties of shapes	3	Compare angles	identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle
Geometry – properties of shapes	14	Angles and properties of shapes	4	Measure and draw accurately	draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them
Geometry – properties of shapes	14	Angles and properties of shapes	5	Horizontal and vertical	identify horizontal and vertical lines and pairs of perpendicular and parallel lines
Geometry –	14	Angles and properties of	6	Parallel and perpendicular	identify horizontal and vertical lines and pairs of

properties of shapes		shapes			perpendicular and parallel lines
Geometry – properties of shapes	14	Angles and properties of shapes	7	Recognise and describe 2D shapes	draw 2D shapes and make 3D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
Geometry – properties of shapes	14	Angles and properties of shapes	8	Recognise and describe 3D shapes	draw 2D shapes and make 3D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
Geometry – properties of shapes	14	Angles and properties of shapes	9	Make 3D shapes	draw 2D shapes and make 3D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
Statistics	15	Statistics	1	Interpret pictograms (1)	interpret and present data using bar charts, pictograms and tables
Statistics	15	Statistics	2	Interpret pictograms (2)	interpret and present data using bar charts, pictograms and tables
Statistics	15	Statistics	3	Draw pictograms	interpret and present data using bar charts, pictograms and tables
Statistics	15	Statistics	4	Interpret bar charts	interpret and present data using bar charts, pictograms and tables
Statistics	15	Statistics	5	Draw bar charts	interpret and present data using bar charts, pictograms and tables
Statistics	15	Statistics	6	Collect and represent data	interpret and present data using bar charts, pictograms and tables
Statistics	15	Statistics	7	Simple two-way tables	interpret and present data using bar charts, pictograms and tables

Textbook: 4A

Unit	Key vocabulary highlighted in this unit			New vocabulary		
1	tens hundreds thousands rounding	order more than (>) less than (<) partition	numeral nearest distance	nearest		
2	thousands ascending descending	rounding negative step	multiple greater than (>) less than (<)	step descending ascending		
3	addition total more than (>) subtraction	less than (<) column method estimate how much diagram	strategy efficient accurate exact fact	strategy efficient accurate	exact diagram	
4	length width perimeter distance	rectangle square rectilinear shape centimetre (cm)	metre (m) kilometre (km) equivalent to	kilometre (km) equivalent to width	around length rectilinear shape	
5	multiply (×) divide (÷) multiplication fact	division fact lots of groups of	times-table array			

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective
Number – number and place value	1	Place value – 4-digit numbers	1	Represent and partition numbers to 1,000	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
Number – number and place value	1	Place value – 4-digit numbers	2	Number line to 1,000	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
Number – number and place value	1	Place value – 4-digit numbers	3	Multiples of 1,000	Count in multiples of 6, 7, 9, 25 and 1,000
Number – number and place value	1	Place value – 4-digit numbers	4	4-digit numbers	Identify, represent and estimate numbers using different representations
Number – number	1	Place value – 4-digit	5	Partition 4-digit numbers	Recognise the place value of each digit in a

and place value		numbers			four-digit number (1,000s, 100s, 10s, and 1s)
Number – number and place value	1	Place value – 4-digit numbers	6	Partition 4-digit numbers flexibly	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
Number – number and place value	1	Place value – 4-digit numbers	7	1, 10, 100, 1,000 more or less	Find 1,000 more or less than a given number
Number – number and place value	1	Place value – 4-digit numbers	8	1,000s, 100s, 10s and 1s	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
Number – number and place value	2	Place value – 4-digit numbers	1	Number line to 10,000	Identify, represent and estimate numbers using different representations
Number – number and place value	2	Place value – 4-digit numbers	2	Between two multiples	Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
Number – number and place value	2	Place value – 4-digit numbers	3	Estimate on a number line to 10,000	Order and compare numbers beyond 1,000
Number – number and place value	2	Place value – 4-digit nu	4	Compare and order numbers to 10,000	Order and compare numbers beyond 1,000
Number – number and place value	2	Place value – 4-digit numbers	5	Round to the nearest 1,000	Round any number to the nearest 10, 100 or 1,000
Number – number and place value	2	Place value – 4-digit numbers	6	Round to the nearest 100	Round any number to the nearest 10, 100 or 1,000
Number – number and place value	2	Place value – 4-digit numbers	7	Round to the nearest 10	Round any number to the nearest 10, 100 or 1,000
Number – number and place value	2	Place value – 4-digit numbers	8	Round to the nearest 1,000, 100 or 10	Round any number to the nearest 10, 100 or 1,000
Number – addition and subtraction	3	Addition and subtraction	1	Add and subtract 1s, 10s, 100s, 1,000s	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Number – addition and subtraction	3	Addition and subtraction	2	Add two 4-digit numbers	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Number – addition and subtraction	3	Addition and subtraction	3	Add two 4-digit numbers – one exchange	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

Number – addition and subtraction	3	Addition and subtraction	4	Add with more than one exchange	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Number – addition and subtraction	3	Addition and subtraction	5	Subtract two 4-digit numbers	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Number – addition and subtraction	3	Addition and subtraction	6	Subtract two 4-digit numbers – one exchange	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Number – addition and subtraction	3	Addition and subtraction	7	Subtract two 4-digit numbers – more than one exchange	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Number – addition and subtraction	3	Addition and subtraction	8	Exchange across two columns	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
Number – addition and subtraction	3	Addition and subtraction	9	Efficient methods	estimate and use inverse operations to check answers to a calculation
Number – addition and subtraction	3	Addition and subtraction	10	Equivalent difference	estimate and use inverse operations to check answers to a calculation
Number – addition and subtraction	3	Addition and subtraction	11	Estimate answers	estimate and use inverse operations to check answers to a calculation
Number – addition and subtraction	3	Addition and subtraction	12	Check strategies	estimate and use inverse operations to check answers to a calculation
Number – addition and subtraction	3	Addition and subtraction	13	Problem solving – one step	solve addition and subtraction two- step problems in contexts, deciding which operations and methods to use and why
Number – addition and	3	Addition and subtraction	14	Problem solving – comparison	solve addition and subtraction two- step problems in contexts, deciding which operations

subtraction					and methods to use and why
Number – addition and subtraction	3	Addition and subtraction	15	Problem solving – two steps	solve addition and subtraction two- step problems in contexts, deciding which operations and methods to use and why
Number – addition and subtraction	3	Addition and subtraction	16	Problem solving – multi-step problems	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Measurement	4	Measure – area	1	What is area?	Find the area of rectilinear shapes by counting squares
Measurement	4	Measure – area	2	Measure area using squares	Find the area of rectilinear shapes by counting squares
Measurement	4	Measure – area	3	Count squares	Find the area of rectilinear shapes by counting squares
Measurement	4	Measure – area	4	Make shapes	Find the area of rectilinear shapes by counting squares
Measurement	4	Measure – area	5	Compare area	Estimate, compare and calculate different measures, including money in pounds and pence
Number – multiplication and division	5	Multiplication and division	1	Multiples of 3	Recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	5	Multiplication and division	2	Multiply and divide by 6	Recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	5	Multiplication and division	3	6 times-table and division facts	Recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	5	Multiplication and division	4	Multiply and divide by 9	Recall multiplication and division facts for multiplication tables up to12 × 12
Number – multiplication and division	5	Multiplication and division	5	9 times-table and division facts	Recall multiplication and division facts for multiplication tables up to 12 × 12

Number – multiplication and division	5	Multiplication and division	6	The 3, 6 and 9 times-tables	Recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	5	Multiplication and division	7	Multiply and divide by 7	Recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	5	Multiplication and division	8	7 times-table and division facts	Recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	5	Multiplication and division	9	11 and 12 times-tables and division facts	Recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	5	Multiplication and division	10	Multiply by 1 and 0	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
Number – multiplication and division	5	Multiplication and division	11	Divide by 1 and itself	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
Number – multiplication and division	5	Multiplication and division	12	Multiply three numbers	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

Textbook: 4B

Unit	Key vocabulary highlighted in this unit			New vocabulary		
6	multiply divide times-table partition	array bar model part-whole model remainder	factor pair factor commutative	commutative		
7	length width area space rectangle	square rectilinear shape unit least greatest	triangle quadrilateral reflection rotation	area unit		
8	tenths hundredths equivalent simplify	numerator denominator fraction	mixed number improper fraction simplest fraction	hundredth simplest fraction	simplify improper fraction	
9	numerator denominator add	subtract improper fraction	mixed number fraction of an amount			
10	tens ones decimal point tenths	hundredths greater than (>) equivalent less than (<)	decimal centimetre millimetre	decimal decimal point		

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Number – multiplication and division	6	Multiplication and division (2)	1	Factor pairs	Recognise and use factor pairs and commutativity in mental calculations
Number – multiplication and division	6	Multiplication and division (2)	2	Multiply and divide by 10	recall multiplication and division facts for multiplication tables up to 12 × 12
Number –	6	Multiplication and	3	Multiply and divide by 100	recall multiplication and division facts for

multiplication and division		division (2)			multiplication tables up to 12 × 12
Number – multiplication and division	6	Multiplication and division (2)	4	Related facts – multiplication	recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	6	Multiplication and division (2)	5	Related facts – division	recall multiplication and division facts for multiplication tables up to 12 × 12
Number – multiplication and division	6	Multiplication and division (2)	6	Multiply and add	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Number – multiplication and division	6	Multiplication and division (2)	7	Informal written methods	multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Number – multiplication and division	6	Multiplication and division (2)	8	Multiply 2-digits by 1-digit	multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Number – multiplication and division	6	Multiplication and division (2)	9	Multiply 3-digits by 1-digit	multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Number – multiplication and division	6	Multiplication and division (2)	10	Solve multiplication problems	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Number – multiplication and division	6	Multiplication and division (2)	11	Basic division	recognise and use factor pairs and commutativity in mental calculations
Number – multiplication and	6	Multiplication and division (2)	12	Division and remainders	multiply two-digit and three-digit numbers by a one-digit number using formal written layout

division					
Number – multiplication and division	6	Multiplication and division (2)	13	Divide 2-digit numbers	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
Number – multiplication and division	6	Multiplication and division (2)	14	Divide 3-digit numbers	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
Number – multiplication and division	6	Multiplication and division (2)	15	Correspondence problems	recognise and use factor pairs and commutativity in mental calculations
Number – multiplication and division	6	Multiplication and division (2)	16	Efficient multiplication	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Measurement	7	Length and perimeter	1	Measure in km and m	Convert between different units of measure [for example, kilometre to metre; hour to minute]
Measurement	7	Length and perimeter	2	Perimeter on a grid	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Measurement	7	Length and perimeter	3	Perimeter of a rectangle	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Measurement	7	Length and perimeter	4	Perimeter of rectilinear shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Measurement	7	Length and perimeter	5	Find missing lengths in rectilinear shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Measurement	7	Length and perimeter	6	Perimeter of regular polygons	measure and calculate the perimeter of a

					rectilinear figure (including squares) in centimetres and metres
Number – fractions	8	Fractions (1)	1	Count beyond 1	Non-statutory guidance: They practise counting using simple fractions and decimals, both forwards and backwards
Number – fractions	8	Fractions (1)	2	Partition a mixed number	Ready to progress criteria (4F–1): Reason about the location of mixed numbers in the linear number system
Number – fractions	8	Fractions (1)	3	Number lines with mixed numbers	Ready to progress criteria (4F–1): Reason about the location of mixed numbers in the linear number system
Number – fractions	8	Fractions (1)	4	Compare and order mixed numbers	Ready to progress criteria (4F–1): Reason about the location of mixed numbers in the linear numer system
Number – fractions	8	Fractions (1)	5	Convert mixed numbers to improper fractions	Ready to progress criteria (4F–2): Convert mixed numbers to improper fractions and vice versa
Number – fractions	8	Fractions (1)	6	Convert improper fractions to mixed numbers	Ready to progress criteria (4F–2): Convert mixed numbers to improper fractions and vice versa
Number – fractions	8	Fractions (1)	7	Equivalent fractions	recognise and show, using diagrams, families of common equivalent fractions
Number – fractions	8	Fractions (1)	8	Equivalent fraction families	recognise and show, using diagrams, families of common equivalent fractions
Number – fractions	8	Fractions (1)	9	Simplifying fractions	recognise and show, using diagrams, families of common equivalent fractions
Number – fractions	9	Fractions (2)	1	Add and subtract two or more fractions	add and subtract fractions with the same denominator
Number – fractions	9	Fractions (2)	2	Add fractions and mixed numbers	add and subtract fractions with the same denominator
Number – fractions	9	Fractions (2)	3	Subtract from mixed numbers	add and subtract fractions with the same denominator
Number – fractions	9	Fractions (2)	4	Subtract from whole amounts	add and subtract fractions with the same denominator

Number – fractions	9	Fractions (2)	5	Problem solving – add and subtract fractions (1)	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
Number – fractions	9	Fractions (2)	6	Problem solving – add and subtract fractions (2)	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
Number – fractions	9	Fractions (2)	7	Fraction of an amount	Non-stat lesson.
Number – fractions	9	Fractions (2)	8	Problem solving – fraction of an amount	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
Number – fractions (including decimals and percentages)	10	Decimals (1)	1	Tenths as fractions	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	2	Tenths as decimals	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	3	Tenths on a place value grid	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and	10	Decimals (1)	4	Tenths on a number line (1)	recognise and write decimal equivalents of any number of tenths or hundredths

percentages)					
Number – fractions (including decimals and percentages)	10	Decimals (1)	5	Tenths on a number line (2)	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	6	Divide 1-digit by 10	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 ones, tenths and hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	7	Divide 2-digits by 10	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 ones, tenths and hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	8	Hundredths as fractions	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	9	Hundredths as decimals	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	10	Hundredths on a place value grid	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions	10	Decimals (1)	11	Divide 1 or 2-digits by 100	find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of

(including decimals and percentages)					the digits in the answer as ones, tenths and hundredths
Number – fractions (including decimals and percentages)	10	Decimals (1)	12	Dividing by 10 and 100	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 ones, tenths and hundredths

Textbook: 4C

Unit	Key vocabulary highlighted in this unit			New vocabulary		
11	tenths hundredths decimal point 0·1 and 0·01 equivalent	whole number rounding greater than (>) less than (<) equal to (=)	order compare convert decimal place ascending descending			
12	notes coins pounds (£) pence (p) add subtract	change round to the nearest order greater than (>) less than (<) cheaper	more expensive estimate over estimate under estimate total notation	over estimate under estimate		
13	convert compare unit of time second minute	hour day week month year	12-hour 24-hour analogue digital am/pm	unit of time analogue 24-hour time		
14	quadrilateral triangle regular irregular interior angle	angle acute obtuse reflect right angle	symmetrical isosceles scalene equilateral line of symmetry reflective symmetry	interior angle regular irregular isosceles	scalene equilateral reflective symmetry	
15	data line graph pictogram bar chart	table altogether more than (>) greatest	smallest continuous data compare	line graph continuous		
16	position horizontal vertical up	down left right coordinates	square rectangle plot vertex	grid coordinates		

	vertices	point	grid			

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Number – fractions (including decimals and percentages)	11	Decimals (2)	1	Make a whole	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	11	Decimals (2)	2	Partitioning decimals	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	11	Decimals (2)	3	Flexible partitioning decimals	recognise and write decimal equivalents of any number of tenths or hundredths
Number – fractions (including decimals and percentages)	11	Decimals (2)	4	Compare decimals	compare numbers with the same number of decimal places up to two decimal places
Number – fractions (including decimals and percentages)	11	Decimals (2)	5	Order decimals	compare numbers with the same number of decimal places up to two decimal places
Number – fractions (including decimals and percentages)	11	Decimals (2)	6	Round to the nearest whole	round decimals with one decimal place to the nearest whole number

Number – fractions (including decimals and percentages)	11	Decimals (2)	7	Halves and quarters as decimals	recognise and write decimal equivalents to 1/4, 1/2, 3/4
Measurement	12	Money	1	Write money using decimals	estimate, compare and calculate different measures, including money in pounds and pence
Measurement	12	Money	2	Convert between pounds and pence	estimate, compare and calculate different measures, including money in pounds and pence
Measurement	12	Money	3	Compare amounts of money	estimate, compare and calculate different measures, including money in pounds and pence
Measurement	12	Money	4	Estimate with money	estimate, compare and calculate different measures, including money in pounds and pence
Measurement	12	Money	5	Calculate with money	estimate, compare and calculate different measures, including money in pounds and pence
Measurement	12	Money	6	Solve problems with money	estimate, compare and calculate different measures, including money in pounds and pence
Measurement	13	Time	1	Years, months, weeks and days	Convert between different units of measure [for example, kilometre to metre; hour to minute]
Measurement	13	Time	2	Hours, minutes and seconds	Convert between different units of measure [for example, kilometre to metre; hour to minute]
Measurement	13	Time	3	Convert between analogue and digital times	Convert between different units of measure [for example, kilometre to metre; hour to minute]
Measurement	13	Time	4	Convert to the 24 hour clock	Convert between different units of measure [for example, kilometre to metre; hour to minute]
Measurement	13	Time	5	Problem solving – converting time	Convert between different units of measure [for example, kilometre to metre; hour to minute]
Geometry – properties of shapes	14	Geometry – angles and 2D shapes	1	Identify angles	identify acute and obtuse angles and compare and order angles up to two right angles by size
Geometry – properties of	14	Geometry – angles and 2D shapes	2	Compare and order angles	identify acute and obtuse angles and compare and order angles up to two right angles by size

shapes					
Geometry – properties of shapes	14	Geometry – angles and 2D shapes	3	Triangles	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
Geometry – properties of shapes	14	Geometry – angles and 2D shapes	4	Quadrilaterals	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
Geometry – properties of shapes	14	Geometry – angles and 2D shapes	5	Polygons	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
Geometry – properties of shapes	14	Geometry – angles and 2D shapes	6	Reasoning about polygons	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
Geometry – properties of shapes	14	Geometry – angles and 2D shapes	7	Lines of symmetry	Identify lines of symmetry in 2D shapes presented in different orientations
Geometry – properties of shapes	14	Geometry – angles and 2D shapes	8	Complete a symmetric figure	complete a simple symmetric figure with respect to a specific line of symmetry
Statistics	15	Statistics	1	Interpret charts	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Statistics	15	Statistics	2	Solve problems with charts (1)	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
Statistics	15	Statistics	3	Solve problems with charts (2)	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Statistics	15	Statistics	4	Interpret line graphs (1)	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs

Statistics	15	Statistics	5	Interpret line graphs (2)	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Statistics	15	Statistics	6	Draw line graphs	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Geometry – position and direction	16	Geometry – position and direction	1	Describe position	Describe positions on a 2D grid as coordinates in the first quadrant
Geometry – position and direction	16	Geometry – position and direction	2	Describe position using coordinates	Describe positions on a 2D grid as coordinates in the first quadrant
Geometry – position and direction	16	Geometry – position and direction	3	Plot coordinates	plot specified points and draw sides to complete a given polygon
Geometry – position and direction	16	Geometry – position and direction	4	Draw 2D shapes on a grid	plot specified points and draw sides to complete a given polygon
Geometry – position and direction	16	Geometry – position and direction	5	Translate on a grid	describe movements between positions as translations of a given unit to the left/right and up/down
Geometry – position and direction	16	Geometry – position and direction	6	Describe translation on a grid	describe movements between positions as translations of a given unit to the left/right and up/down

Textbook: 5A

Unit	Key vocabulary highlighted in this unit			New vocabulary		
1	ones (1s) tens (10s) hundreds (100s) thousands (1,000s) ten thousands (10,000s)	place value partition estimate round compare	order equivalent greater than (>) less than (<) convert			
2	ones (1s) tens (10s) hundreds (100s) thousands (1,000s) ten thousands (10,000s)	hundred thousands (100,000s) million (1,000,000) round order	ascending descending less than (<) greater than (>) sequence	million		
3	add subtract ones (1s) tens (10s)	hundreds (100s) thousands (1,000s) ten thousands (10,000s) mentally	inverse round estimate distance chart	distance chart		
4	prime number composite number square number cube number	inverse operation multiply square (2) cube (3)	divide multiple factor prime factor	factor prime number composite number	square number cube number inverse operation	
5	equivalent numerator denominator whole fraction	simplify expand division improper mixed number	convert sequence order greater than (>) less than (<) equal to (=)			
6	add subtract proper fraction improper fraction	simplify equivalent fraction mixed number denominator	numerator whole efficient common denominator	Common denominator		

	convert					
Strand	Unit	Unit title	Lesson no	New lesson title	NC objective	
Number – number and place value	1	Place value within 1,000,000 (1)	1	Roman numerals	read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
Number – number and place value	1	Place value within 1,000,000 (1)	2	Numbers to 10,000	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	
Number – number and place value	1	Place value within 1,000,000 (1)	3	Numbers to 100,000	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	
Number – number and place value	1	Place value within 1,000,000 (1)	4	Numbers to 1,000,000	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	
Number – number and place value	1	Place value within 1,000,000 (1)	5	Read and write 5- and 6-digit numbers	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	
Number – number and place value	1	Place value within 1,000,000 (1)	6	Powers of 10	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
Number – number and place value	1	Place value within 1,000,000 (1)	7	10/100/1,000/10,000/100,000 more or less	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
Number – number and place value	1	Place value within 1,000,000 (1)	8	Partition numbers to 1,000,000	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	
Number – number and place value	2	Place value within 1,000,000 (2)	1	Number line to 1,000,000	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	
Number – number and place value	2	Place value within 1,000,000 (2)	2	Compare and order numbers to 100,000	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	
Number – number	2	Place value within	3	Compare and order numbers to	read, write, order and compare numbers to at	

and place value		1,000,000 (2)		1,000,000	least 1,000,000 and determine the value of each digit
Number – number and place value	2	Place value within 1,000,000 (2)	4	Round numbers to the nearest 100,000	round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
Number – number and place value	2	Place value within 1,000,000 (2)	5	Round numbers to the nearest 10,000	round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
Number – number and place value	2	Place value within 1,000,000 (2)	6	Round numbers to the nearest 10, 100 and 1,000	round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
Number – addition and subtraction	3	Addition and subtraction	1	Mental strategies (addition)	add and subtract numbers mentally with increasingly large numbers
Number – addition and subtraction	3	Addition and subtraction	2	Mental strategies (subtraction)	add and subtract numbers mentally with increasingly large numbers
Number – addition and subtraction	3	Addition and subtraction	3	Add whole numbers with more than 4 digits (1)	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
Number – addition and subtraction	3	Addition and subtraction	4	Add whole numbers with more than 4 digits (2)	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
Number – addition and subtraction	3	Addition and subtraction	5	Subtract whole numbers with more than 4 digits (1)	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
Number – addition and subtraction	3	Addition and subtraction	6	Subtract whole numbers with more than 4 digits (2)	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
Number – addition and subtraction	3	Addition and subtraction	7	Round to check answers	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Number – addition and subtraction	3	Addition and subtraction	8	Inverse operations (addition and subtraction)	estimate and use inverse operations to check answers to a calculation
Number – addition and subtraction	3	Addition and subtraction	9	Multi-step addition and subtraction problems (1)	solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why
Number – addition and subtraction	3	Addition and subtraction	10	Multi-step addition and subtraction problems (2)	solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why
Number – addition and subtraction	3	Addition and subtraction	11	Solve missing number problems	solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why
Number – addition and subtraction	3	Addition and subtraction	12	Solve comparison problems	solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why
Number – multiplication and division	4	Multiplication and division (1)	1	Multiples	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
Number – multiplication and division	4	Multiplication and division (1)	2	Common multiples	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
Number – multiplication and division	4	Multiplication and division (1)	3	Factors	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
Number – multiplication and division	4	Multiplication and division (1)	4	Common factors	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
Number – multiplication and division	4	Multiplication and division (1)	5	Prime numbers	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
Number – multiplication and	4	Multiplication and division (1)	6	Square numbers	recognise and use square numbers and cube numbers, and the notation for squared (2) and

division					cubed (3)
Number – multiplication and division	4	Multiplication and division (1)	7	Cube numbers	recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
Number – multiplication and division	4	Multiplication and division (1)	8	Multiply by 10, 100 and 1,000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Number – multiplication and division	4	Multiplication and division (1)	9	Divide by 10, 100 and 1,000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Number – multiplication and division	4	Multiplication and division (1)	10	Multiples of 10, 100 and 1,000	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Number – fractions (including decimals and percentages)	5	Fractions (1)	1	Equivalent fractions	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
Number – fractions (including decimals and percentages)	5	Fractions (1)	2	Equivalent fractions – Unit and non-unit fractions	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
Number – fractions (including decimals and percentages)	5	Fractions (1)	3	Equivalent fractions – Families of equivalent fractions	identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
Number – fractions (including decimals and percentages)	5	Fractions (1)	4	Improper fractions to mixed numbers	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example,2/5 + 4/5 = 6/5 = 1 1/5]

Number – fractions (including decimals and percentages)	5	Fractions (1)	5	Mixed numbers to improper fractions	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example,2/5 + 4/5 = 6/5 = 1 1/5]
Number – fractions (including decimals and percentages)	5	Fractions (1)	6	Compare fractions less than 1	compare and order fractions whose denominators are all multiples of the same number
Number – fractions (including decimals and percentages)	5	Fractions (1)	7	Order fractions less than 1	compare and order fractions whose denominators are all multiples of the same number
Number – fractions (including decimals and percentages)	5	Fractions (1)	8	Compare and order fractions greater than 1	compare and order fractions whose denominators are all multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	1	Add and subtract fractions	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	2	Add fractions within 1	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number – fractions (including	6	Fractions (2)	3	Add fractions with total greater than 1	add and subtract fractions with the same denominator and denominators that are multiples of the same number

decimals and percentages)					
Number – fractions (including decimals and percentages)	6	Fractions (2)	4	Add to a mixed number	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	5	Add two mixed numbers	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	6	Subtract fractions within 1	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	7	Subtract from a mixed number	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	8	Subtract from a mixed number – breaking the whole	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	9	Subtract two mixed numbers	add and subtract fractions with the same denominator and denominators that are multiples of the same number
Number –	6	Fractions (2)	10	Solve fraction problems	add and subtract fractions with the same

fractions (including decimals and percentages)					denominator and denominators that are multiples of the same number
Number – fractions (including decimals and percentages)	6	Fractions (2)	11	Solve multi-step fraction problems	add and subtract fractions with the same denominator and denominators that are multiples of the same number

Textbook: 5B

Unit	Key vocabulary highlighted in this unit			New vocabulary		
7	multiply divide add subtract	place value partition equal factor	multiple remainder sum total			
8	multiply proper fraction improper fraction mixed number	whole(s) equal parts divide fraction of an amount	operator numerator denominator convert			
9	decimal decimal place tenth hundredth	thousandth decimal point place value digit	fraction per cent (%) percentage	thousandth one decimal place two decimal places per cent (%)		
10	perimeter distance area space length width	square centimetre (cm2) metre square metre (m2) scale compare	estimate formula 2D shape brackets centimetre	brackets square metre (m2) square centimetre (cm2)		
11	graph line graph table dual line graph horizontal	vertical two-way table scale axis/axes data	kilometre (km) kilogram (kg) plot/plotted tallies/tally digits	two-way table dual line graph		

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Number – multiplication and division	7	Multiplication and division (2)	1	Multiply up to 4-digits by 1-digit	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
Number – multiplication and	7	Multiplication and division (2)	2	Multiply 2-digits (area model)	multiply numbers up to 4 digits by a one- or two-digit number using a formal written

division					method, including long multiplication for two-digit numbers
Number – multiplication and division	7	Multiplication and division (2)	3	Multiply 2-digits by 2-digits	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
Number – multiplication and division	7	Multiplication and division (2)	4	Multiply 3-digits by 2-digits	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
Number – multiplication and division	7	Multiplication and division (2)	5	Multiply 4-digits by 2-digits	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
Number – multiplication and division	7	Multiplication and division (2)	6	Divide 4-digits by 1-digit (1)	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
Number – multiplication and division	7	Multiplication and division (2)	7	Divide 4-digits by 1-digit (2)	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
Number – multiplication and division	7	Multiplication and division (2)	8	Divide with remainders	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
Number – multiplication and division	7	Multiplication and division (2)	9	Efficient division	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders

					appropriately for the context
Number – multiplication and division	7	Multiplication and division (2)	10	Solve problems with multiplication and division	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
Number – fractions (including decimals and percentages)	8	Fractions (3)	1	Multiply unit fractions by an integer	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Number – fractions (including decimals and percentages)	8	Fractions (3)	2	Multiply non-unit fractions by an integer	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Number – fractions (including decimals and percentages)	8	Fractions (3)	3	Multiply mixed numbers by integers (1)	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Number – fractions (including decimals and percentages)	8	Fractions (3)	4	Multiply mixed numbers by integers (2)	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Number – fractions (including decimals and percentages)	8	Fractions (3)	5	Fraction of an amount	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Number – fractions (including	8	Fractions (3)	6	Finding the whole	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

decimals and percentages)					
Number – fractions (including decimals and percentages)	8	Fractions (3)	7	Using fractions as operators	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Number – fractions (including decimals and percentages)	9	Decimals and percentages	1	Write decimals up to 2 decimal places – less than 1	read, write, order and compare numbers with up to three decimal places
Number – fractions (including decimals and percentages)	9	Decimals and percentages	2	Write decimals up to 2 decimals places – greater than 1	read, write, order and compare numbers with up to three decimal places
Number – fractions (including decimals and percentages)	9	Decimals and percentages	3	Equivalent fractions and decimals – tenths	read and write decimal numbers as fractions [for example, 071 = 71/100]
Number – fractions (including decimals and percentages)	9	Decimals and percentages	4	Equivalent fractions and decimals – hundredths	read and write decimal numbers as fractions [for example, 071 = 71/100]
Number – fractions (including	9	Decimals and percentages	5	Equivalent fractions and decimals	read and write decimal numbers as fractions [for example, 071 = 71/100]

decimals and percentages)					
Number – fractions (including decimals and percentages)	9	Decimals and percentages	6	Thousandths as fractions	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Number – fractions (including decimals and percentages)	9	Decimals and percentages	7	Thousandths as decimals	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Number – fractions (including decimals and percentages)	9	Decimals and percentages	8	Thousandths on a place value grid	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Number – fractions (including decimals and percentages)	9	Decimals and percentages	9	Order and compare decimals – same number of decimal places	read, write, order and compare numbers with up to three decimal places
Number – fractions (including decimals and percentages)	9	Decimals and percentages	10	Order and compare any decimals with up to 3 decimal places	read, write, order and compare numbers with up to three decimal places
Number – fractions (including decimals and percentages)	9	Decimals and percentages	11	Round to the nearest whole number	round decimals with two decimal places to the nearest whole number and to one decimal place
Number –	9	Decimals and	12	Round to one decimal place	round decimals with two decimal places to the

fractions (including decimals and percentages)		percentages			nearest whole number and to one decimal place
Number – fractions (including decimals and percentages)	9	Decimals and percentages	13	Understand percentages	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
Number – fractions (including decimals and percentages)	9	Decimals and percentages	14	Percentages as fractions and decimals	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
Number – fractions (including decimals and percentages)	9	Decimals and percentages	15	Equivalent fractions, decimals and percentages	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
Measurement	10	Measure – perimeter and area	1	Perimeter of rectangles	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
Measurement	10	Measure – perimeter and area	2	Perimeter of rectilinear shapes (1)	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
Measurement	10	Measure – perimeter and area	3	Perimeter of rectilinear shapes (2)	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
Measurement	10	Measure – perimeter and area	4	Perimeter of polygons	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
Measurement	10	Measure – perimeter and area	5	Area of rectangles (1)	calculate and compare the area of rectangles (including squares), and including using standard

					units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes
Measurement	10	Measure – perimeter and area	6	Area of rectangles (2)	calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes
Measurement	10	Measure – perimeter and area	7	Area of compound shapes	calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes
Measurement	10	Measure – perimeter and area	8	Estimate area	calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes
Statistics	11	Graphs and tables	1	Draw line graphs	solve comparison, sum and difference problems using information presented in a line graph
Statistics	11	Graphs and tables	2	Read and interpret line graphs (1)	solve comparison, sum and difference problems using information presented in a line graph
Statistics	11	Graphs and tables	3	Read and interpret line graphs (2)	solve comparison, sum and difference problems using information presented in a line graph
Statistics	11	Graphs and tables	4	Read and interpret tables	complete, read and interpret information in tables, including timetables
Statistics	11	Graphs and tables	5	Two-way tables	complete, read and interpret information in tables, including timetables
Statistics	11	Graphs and tables	6	Timetables – reading	complete, read and interpret information in tables, including timetables

Textbook: 5C

Unit	Key vocabulary highlighted in this unit			New vocabulary		
12	parallel perpendicular angle right angle interior angle quadrilateral view	regular irregular 3D shape pyramid sphere cone	hexagon pentagon triangle top view plan view side view	top view plan view side view		
13	reflection translation vertex	vertices coordinates mirror line	horizontal axis vertical axis	mirror line translation		
14	add subtract decimal tenth hundredth	thousandth multiply divide decimal point whole	column exchange place value decimal place digit			
15	place value step interval number line counting sequence	negative positive temperature thermometer compare order	increase decrease ascending descending less than (<), greater than (>) nearest			
16	convert metric unit imperial unit kilo kilogram gram approximately	millimetre centimetre metre kilometre litre millilitre stone (st)	pound (lb) ounce (oz) inch (in) foot (ft) yard (yd) pint gallon	‘kilo’ ‘milli’ inch (in) foot (ft)	imperial unit yard (yd) pound (lb) ounce (oz)	stone (st) pint gallon
17	volume	solid	unit cube	Volume		

	cube cuboid 3D shape	capacity calculate estimate	least greatest	unit cube	

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective
Geometry – properties of shapes	12	Geometry – properties of shapes	1	Understand and use degrees	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
Geometry – properties of shapes	12	Geometry – properties of shapes	2	Measure acute angles	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angle
Geometry – properties of shapes	12	Geometry – properties of shapes	3	Measure angles up to 180°	know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
Geometry – properties of shapes	12	Geometry – properties of shapes	4	Draw lines and angles accurately	draw given angles, and measure them in degrees (o)
Geometry – properties of shapes	12	Geometry – properties of shapes	5	Calculate angles around a point	identify: -angles at a point and one whole turn (total 360o) -angles at a point on a straight line and 1/2 a turn (total 180o) -other multiples of 90o
Geometry – properties of shapes	12	Geometry – properties of shapes	6	Calculate angles on a straight line	identify: -angles at a point and one whole turn (total 360o) -angles at a point on a straight line and 1/2 a turn (total 180o) -other multiples of 90o
Geometry – properties of shapes	12	Geometry – properties of shapes	7	Lengths and angles in shapes	use the properties of rectangles to deduce related facts and find missing lengths and angles

Geometry – properties of shapes	12	Geometry – properties of shapes	8	Regular and irregular polygons	distinguish between regular and irregular polygons based on reasoning about equal sides and angles
Geometry – properties of shapes	12	Geometry – properties of shapes	9	Parallel lines	identify horizontal and vertical lines and pairs of perpendicular and parallel lines (Year 3)
Geometry – properties of shapes	12	Geometry – properties of shapes	10	Perpendicular lines	identify horizontal and vertical lines and pairs of perpendicular and parallel lines (Year 3)
Geometry – properties of shapes	12	Geometry – properties of shapes	11	Investigate lines	identify horizontal and vertical lines and pairs of perpendicular and parallel lines (Year 3)
Geometry – properties of shapes	12	Geometry – properties of shapes	12	3D shapes	identify 3D shapes, including cubes and other cuboids, from 2D representations
Geometry – position and direction	13	Geometry – position and direction	1	Read and plot coordinates	Describe positions on a 2D grid as coordinates in the first quadrant (Year 4)
Geometry – position and direction	13	Geometry – position and direction	2	Problem solving with coordinates	Describe positions on a 2D grid as coordinates in the first quadrant (Year 4)
Geometry – position and direction	13	Geometry – position and direction	3	Translate shapes	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
Geometry – position and direction	13	Geometry – position and direction	4	Translate points	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
Geometry – position and direction	13	Geometry – position and direction	5	Lines of symmetry	identify lines of symmetry in 2D shapes presented in different orientations (Year 4)

Geometry – position and direction	13	Geometry – position and direction	6	Reflection in horizontal and vertical lines	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
Number – fractions (including decimals and percentages)	14	Decimals	1	Add and subtract decimals within 1 (1)	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	2	Add and subtract decimals within 1 (2)	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	3	Complements to 1	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	4	Add and subtract decimals (bridging)	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	5	Add decimals – same number of decimal places	solve problems involving number up to three decimal places
Number – fractions (including decimals and	14	Decimals	6	Subtract decimals with the same number of decimal places	solve problems involving number up to three decimal places

percentages)					
Number – fractions (including decimals and percentages)	14	Decimals	7	Add decimals with different numbers of decimal places	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	8	Subtract decimals with different numbers of decimal places	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	9	Problem solving with decimals (1)	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	10	Problem solving with decimals (2)	solve problems involving number up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	11	Decimal sequences	read, write, order and compare numbers with up to three decimal places
Number – fractions (including decimals and percentages)	14	Decimals	12	Multiply by 10	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Number – fractions	14	Decimals	13	Multiply by 10, 100 and 1,000	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

(including decimals and percentages)					
Number – fractions (including decimals and percentages)	14	Decimals	14	Divide by 10	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Number – fractions (including decimals and percentages)	14	Decimals	15	Divide by 10, 100 and 1,000	recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Number – number and place value	15	Negative numbers	1	Understand negative numbers	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
Number – number and place value	15	Negative numbers	2	Count through zero	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
Number – number and place value	15	Negative numbers	3	Compare and order negative numbers	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
Number – number and place value	15	Negative numbers	4	Find the difference	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
Measurement	16	Measure – converting units	1	Kilograms and kilometres	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and

					millilitre)
Measurement	16	Measure – converting units	2	Millimetres and millilitres	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
Measurement	16	Measure – converting units	3	Convert units of length	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
Measurement	16	Measure – converting units	4	Imperial units of length	understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Measurement	16	Measure – converting units	5	Imperial units of mass	understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Measurement	16	Measure – converting units	6	Imperial units of capacity	understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Measurement	16	Measure – converting units	7	Convert units of time	solve problems involving converting between units of time
Measurement	16	Measure – converting units	8	Timetables – calculating	solve problems involving converting between units of time
Measurement	16	Measure – converting units	9	Problem solving – units of measure (1)	use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling
Measurement	16	Measure – converting units	10	Problem solving – units of measure (2)	use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling

Measurement	17	Measure – volume and capacity	1	Cubic centimetres	estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]
Measurement	17	Measure – volume and capacity	2	Compare volume	estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]
Measurement	17	Measure – volume and capacity	3	Estimate volume	estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]

Textbook: 6A

Unit	Key vocabulary highlighted in this unit			New vocabulary		
1	ten thousands (10,000s) hundred thousands (100,000s) millions (1,000,000s) ten million (10,000,000)	place value partition interval estimate compare	order rounding negative positive			
2	column addition column multiplication short division	long division remainder	factor estimate	long division		
3	factor common factor common multiple prime	composite squared (2) cubed (3)	order of operations brackets inverse operation	order of operations		
4	numerator denominator common denominator common factor equivalent simplify convert	simplest form factor highest common factor lowest common multiple (LCM) compare	order ascending descending proper fraction improper fraction mixed number lowest common denominator	common factor highest common factor	lowest common multiple (LCM)	lowest common denominator
5	numerator denominator whole number	mixed number proper fraction improper fraction	convert simplify			
6	metric imperial unit of measurement (or measure) gram (g) kilogram (kg)	pound (lbs) ounce (oz) mass millilitre (ml) litre (l) pint	metre (m) kilometre (km) inch (in) foot (ft) yard (yd) mile	conversion table conversion graph		

	conversion table conversion graph	capacity millimetre (mm) centimetre (cm)	length convert			

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective
Number – number and place value	1	Place value within 10,000,000	1	Numbers to 1,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
Number – number and place value	1	Place value within 10,000,000	2	Numbers to 10,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
Number – number and place value	1	Place value within 10,000,000	3	Partition numbers to 10,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
Number – number and place value	1	Place value within 10,000,000	4	Powers of 10	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
Number – number and place value	1	Place value within 10,000,000	5	Number line to 10,000,000	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
Number – number and place value	1	Place value within 10,000,000	6	Compare and order any number	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
Number – number and place value	1	Place value within 10,000,000	7	Round any number	round any whole number to a required degree of accuracy
Number – number and place value	1	Place value within 10,000,000	8	Negative numbers	use negative numbers in context, and calculate intervals across zero
Number – addition, subtraction, multiplication and division	2	Four operations (1)	1	Add integers	solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why

Number – addition, subtraction, multiplication and division	2	Four operations (1)	2	Subtract integers	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
Number – addition, subtraction, multiplication and division	2	Four operations (1)	3	Problem solving – addition and subtraction	solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why
Number – addition, subtraction, multiplication and division	2	Four operations (1)	4	Common factors	identify common factors, common multiples and prime numbers
Number – addition, subtraction, multiplication and division	2	Four operations (1)	5	Common multiples	identify common factors, common multiples and prime numbers
Number – addition, subtraction, multiplication and division	2	Four operations (1)	6	Rules of divisibility	identify common factors, common multiples and prime numbers
Number – addition, subtraction, multiplication and division	2	Four operations (1)	7	Primes to 100	identify common factors, common multiples and prime numbers
Number – addition, subtraction,	2	Four operations (1)	8	Squares and cubes	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) (year 5)

multiplication and division					
Number – addition, subtraction, multiplication and division	3	Four operations (2)	1	Multiply by a 1-digit number	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
Number – addition, subtraction, multiplication and division	3	Four operations (2)	2	Multiply up to a 4-digit number by a 2-digit number	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
Number – addition, subtraction, multiplication and division	3	Four operations (2)	3	Short division	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
Number – addition, subtraction, multiplication and division	3	Four operations (2)	4	Division using factors	identify common factors, common multiples and prime numbers
Number – addition, subtraction, multiplication and division	3	Four operations (2)	5	Divide a 3-digit number by a 2- digit number (long division)	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
Number – addition, subtraction, multiplication and division	3	Four operations (2)	6	Divide a 4-digit number by a 2- digit number (long division)	divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
Number –	3	Four operations (2)	7	Long division with remainders	divide numbers up to 4 digits by a two-digit

addition, subtraction, multiplication and division					number using the formal written method of short division where appropriate, interpreting remainders according to the context
Number – addition, subtraction, multiplication and division	3	Four operations (2)	8	Order of operations	use their knowledge of the order of operations to carry out calculations involving the four operations
Number – addition, subtraction, multiplication and division	3	Four operations (2)	9	Brackets	use their knowledge of the order of operations to carry out calculations involving the four operations
Number – addition, subtraction, multiplication and division	3	Four operations (2)	10	Mental calculations (1)	perform mental calculations, including with mixed operations and large numbers
Number – addition, subtraction, multiplication and division	3	Four operations (2)	11	Mental calculations (2)	perform mental calculations, including with mixed operations and large numbers
Number – addition, subtraction, multiplication and division	3	Four operations (2)	12	Reason from known facts	use their knowledge of the order of operations to carry out calculations involving the four operations
Number – fractions	4	Fractions (1)	1	Equivalent fractions and simplifying	use common factors to simplify fractions; use common multiples to express fractions in the same denomination
Number –	4	Fractions (1)	2	Equivalent fractions on a number line	compare and order fractions, including fractions

fractions					> 1
Number – fractions	4	Fractions (1)	3	Compare and order fractions	compare and order fractions, including fractions > 1
Number – fractions	4	Fractions (1)	4	Add and subtract simple fractions	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Number – fractions	4	Fractions (1)	5	Add and subtract any two fractions	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Number – fractions	4	Fractions (1)	6	Add mixed numbers	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Number – fractions	4	Fractions (1)	7	Subtract mixed numbers	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Number – fractions	4	Fractions (1)	8	Multi-step problems	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Number – fractions	4	Fractions (1)	9	Problem solving – adding and subtracting fractions	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Number – fractions	5	Fractions (2)	1	Multiply fractions by integers	multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Number – fractions	5	Fractions (2)	2	Multiply fractions by fractions (1)	multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 x 1/2 = 1/8]
Number – fractions	5	Fractions (2)	3	Multiply fractions by fractions (2)	multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 x 1/2 = 1/8]
Number – fractions	5	Fractions (2)	4	Divide a fraction by an integer (1)	divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]

Number – fractions	5	Fractions (2)	5	Divide a fraction by an integer (2)	divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]
Number – fractions	5	Fractions (2)	6	Divide a fraction by an integer (3)	divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]
Number – fractions	5	Fractions (2)	7	Mixed questions with fractions	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Number – fractions	5	Fractions (2)	8	Fraction of an amount	use written division methods in cases where the answer has up to two decimal places
Number – fractions	5	Fractions (2)	9	Fraction of an amount – find the whole	use written division methods in cases where the answer has up to two decimal places
Measurement	6	Measure – imperial and metric measures		Metric measures	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 three decimal places
Measurement	6	Measure – imperial and metric measures		Convert metric measures	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 three decimal places
Measurement	6	Measure – imperial and metric measures		Calculate with metric measures	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
Measurement	6	Measure – imperial and metric measures		Miles and kilometres	Convert between miles and kilometres
Measurement	6	Measure – imperial and metric measures		Imperial measures	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 three decimal places

Textbook: 6B

Unit	Key vocabulary highlighted in this unit			New vocabulary		
7	ratio proportion part	whole scale scale factor	similar notation	ratio scale factor similar		
8	sequence rule term algebra expression	calculation formula substitute generalise	operation calculate equation inverse solution	rule expression substitute	formula equation	
9	multiply divide decimal decimal place (dp)	recurring decimal placeholder place value tenth	hundredth thousandth product fraction	recurring decimal		
10	per cent (%) percentage part whole decimal	fraction divide share multiply convert	compare order equivalent fraction simplify less than (<) greater than (>)			
11	area volume perimeter parallelogram height	enclosed width length square centimetre (cm2) cubic metre (m3)	square metre (m2) base estimate formula compound shape cubic centimetre (cm3)	compound shape cubic centimetre (cm3)		

Strand	Unit	Unit title	Lesson	New lesson title	NC objective 1

			no		
Ratio and proportion	7	Ratio and proportion	1	Use ratio language	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Ratio and proportion	7	Ratio and proportion	2	Introduce the ratio symbol	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Ratio and proportion	7	Ratio and proportion	3	Ratio and fractions	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Ratio and proportion	7	Ratio and proportion	4	Scale drawing	solve problems involving similar shapes where the scale factor is known or can be found
Ratio and proportion	7	Ratio and proportion	5	Scale factors	solve problems involving similar shapes where the scale factor is known or can be found
Ratio and proportion	7	Ratio and proportion	6	Similar shapes	solve problems involving similar shapes where the scale factor is known or can be found
Ratio and proportion	7	Ratio and proportion	7	Ratio problems	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Ratio and proportion	7	Ratio and proportion	8	Problem solving – ratio and proportion (1)	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Ratio and proportion	7	Ratio and proportion	9	Problem solving – ratio and proportion (2)	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Algebra	8	Algebra	1	Find a rule – one step	generate and describe linear number sequences
Algebra	8	Algebra	2	Find a rule – two steps	generate and describe linear number sequences
Algebra	8	Algebra	3	Form expressions	generate and describe linear number sequences
Algebra	8	Algebra	4	Substitution (1)	express missing number problems algebraically
Algebra	8	Algebra	5	Substitution (2)	express missing number problems algebraically
Algebra	8	Algebra	6	Formulae	use simple formulae

Algebra	8	Algebra	7	Form and solve equations	express missing number problems algebraically
Algebra	8	Algebra	8	Solve one-step equations	express missing number problems algebraically
Algebra	8	Algebra	9	Solve two-step equations	express missing number problems algebraically
Algebra	8	Algebra	10	Find pairs of values	find pairs of numbers that satisfy an equation with two unknowns
Algebra	8	Algebra	11	Solve problems with two unknowns	enumerate possibilities of combinations of two variables
Number – fractions (including decimals and percentages)	9	Decimals	1	Place value to 3 decimals places	identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
Number – fractions (including decimals and percentages)	9	Decimals	2	Round decimals	identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
Number – fractions (including decimals and percentages)	9	Decimals	3	Add and subtract decimals	solve problems which require answers to be rounded to specified degrees of accuracy
Number – fractions (including decimals and percentages)	9	Decimals	4	Multiply by 10, 100 and 1,000	identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
Number – fractions (including decimals and	9	Decimals	5	Divide by 10, 100 and 1,000	identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

percentages)					
Number – fractions (including decimals and percentages)	9	Decimals	6	Multiply decimals by integers	multiply one-digit numbers with up to two decimal places by whole numbers
Number – fractions (including decimals and percentages)	9	Decimals	7	Divide decimals by integers	use written division methods in cases where the answer has up to two decimal places
Number – fractions (including decimals and percentages)	9	Decimals	8	Fractions to decimals	associate a fraction with division and calculate decimal fraction equivalents [for example, 0375] for a simple fraction [for example, 3/8]
Number – fractions (including decimals and percentages)	9	Decimals	9	Fraction as division	associate a fraction with division and calculate decimal fraction equivalents [for example, 0375] for a simple fraction [for example, 3/8]
Number – fractions (including decimals and percentages)	10	Percentages	1	Understand percentages	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Number – fractions (including decimals and percentages)	10	Percentages	2	Fractions to percentages	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Number – fractions	10	Percentages	3	Equivalent fractions, decimals and percentages	recall and use equivalences between simple fractions, decimals and percentages, including in

(including decimals and percentages)					different contexts
Number – fractions (including decimals and percentages)	10	Percentages	4	Order fractions, decimals and percentages	compare and order fractions, including fractions > 1
Number – fractions (including decimals and percentages)	10	Percentages	5	Simple percentage of an amount	solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
Number – fractions (including decimals and percentages)	10	Percentages	6	Percentage of an amount – 1%	solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
Number – fractions (including decimals and percentages)	10	Percentages	7	Percentages of an amount	solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
Number – fractions (including decimals and percentages)	10	Percentages	8	Percentages (missing values)	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Measurement	11	Measure – perimeter, area and volume	1	Shapes – same area	recognise that shapes with the same areas can have different perimeters and vice versa
Measurement	11	Measure – perimeter, area and volume	2	Area and perimeter	recognise that shapes with the same areas can have different perimeters and vice versa
Measurement	11	Measure – perimeter,	3	Area and perimeter – missing lengths	recognise that shapes with the same areas can

		area and volume			have different perimeters and vice versa
Measurement	11	Measure – perimeter, area and volume	4	Area of a triangle – counting squares	calculate the area of parallelograms and triangles
Measurement	11	Measure – perimeter, area and volume	5	Area of a right-angled triangle	calculate the area of parallelograms and triangles
Measurement	11	Measure – perimeter, area and volume	6	Area of any triangle	calculate the area of parallelograms and triangles
Measurement	11	Measure – perimeter, area and volume	7	Area of a parallelogram	recognise when it is possible to use formulae for area and volume of shapes
Measurement	11	Measure – perimeter, area and volume	8	Problem solving – area	calculate the area of parallelograms and triangles
Measurement	11	Measure – perimeter, area and volume	9	Problem solving – perimeter	recognise that shapes with the same areas can have different perimeters and vice versa
Measurement	11	Measure – perimeter, area and volume	10	Volume – count cubes	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]
Measurement	11	Measure – perimeter, area and volume	11	Volume of a cuboid	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]

Textbook: 6C

Unit	Key vocabulary highlighted in this unit			New vocabulary		
13	mean average pie chart	segment line graph bar chart	percentage fraction data	average mean	pie chart segment	

14	degree angle obtuse acute reflex right angle protractor triangle isosceles equilateral	scalene regular polygon quadrilateral parallelogram kite rhombus trapezium diameter radius cube	circumference concentric perimeter net pyramid tetrahedron cylinder prism vertically opposite angles cuboid	vertically opposite angles radius	concentric diameter circumference	net tetrahedron
15	quadrant four quadrants translate translation	x-axis y-axis axis axes	horizontal vertical vertex reflect reflection	quadrant reflect translate		
16	partition estimate round compare equivalent	percentage ratio proportion convert common denominator	coordinates translation reflection vertex scaling isosceles triangle	scaling		

Strand	Unit	Unit title	Lesson no	New lesson title	NC objective 1
Statistics	12	Statistics	1	Interpret line graphs	interpret and construct pie charts and line graphs and use these to solve problems
Statistics	12	Statistics	2	Draw line graphs	interpret and construct pie charts and line graphs and use these to solve problems
Statistics	12	Statistics	3	Advanced bar charts	interpret and construct pie charts and line graphs and use these to solve problems
Statistics	12	Statistics	4	Understand and complete pie charts	interpret and construct pie charts and line graphs and use these to solve problems
Statistics	12	Statistics	5	Read and interpret pie charts	interpret and construct pie charts and line

					graphs and use these to solve problems
Statistics	12	Statistics	6	Pie charts and fractions (1)	interpret and construct pie charts and line graphs and use these to solve problems
Statistics	12	Statistics	7	Pie charts and fractions (2)	interpret and construct pie charts and line graphs and use these to solve problems
Statistics	12	Statistics	8	Pie charts and percentages	interpret and construct pie charts and line graphs and use these to solve problems
Statistics	12	Statistics	9	Introduction to the mean	calculate and interpret the mean as an average
Statistics	12	Statistics	10	Calculate the mean	calculate and interpret the mean as an average
Statistics	12	Statistics	11	Problem solving – mean	calculate and interpret the mean as an average
Geometry – properties of shape	13	Geometry – properties of shape	1	Measure and classify angles	draw 2D shapes using given dimensions and angles
Geometry – properties of shape	13	Geometry – properties of shape	2	Vertically opposite angles	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
Geometry – properties of shape	13	Geometry – properties of shape	3	Angles in a triangle	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Geometry – properties of shape	13	Geometry – properties of shape	4	Angles in a triangle – special cases	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Geometry – properties of shape	13	Geometry – properties of shape	5	Angles in a triangle – missing angles	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Geometry – properties of shape	13	Geometry – properties of shape	6	Angles in quadrilaterals	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons

Geometry – properties of shape	13	Geometry – properties of shape	7	Angles in polygons	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Geometry – properties of shape	13	Geometry – properties of shape	8	Circles	illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Geometry – properties of shape	13	Geometry – properties of shape	9	Parts of a circle	illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Geometry – properties of shape	13	Geometry – properties of shape	10	Draw shapes accurately	draw 2D shapes using given dimensions and angles
Geometry – properties of shape	13	Geometry – properties of shape	11	Nets of 3D shapes (1)	recognise, describe and build simple 3D shapes, including making nets
Geometry – properties of shape	13	Geometry – properties of shape	12	Nets of 3D shapes (2)	recognise, describe and build simple 3D shapes, including making nets
Geometry – position and direction	14	Geometry – position and direction	1	The first quadrant	describe positions on the full coordinate grid (all four quadrants)
Geometry – position and direction	14	Geometry – position and direction	2	Read and plot points in four quadrants	describe positions on the full coordinate grid (all four quadrants)
Geometry – position and direction	14	Geometry – position and direction	3	Solve problems with coordinates	describe positions on the full coordinate grid (all four quadrants)
Geometry – position and direction	14	Geometry – position and direction	4	Translations	draw and translate simple shapes on the coordinate plane, and reflect them in the axes
Geometry –	14	Geometry – position and	5	Reflections	draw and translate simple shapes on the

position and direction		direction			coordinate plane, and reflect them in the axes
Number – addition, subtraction, multiplication and division	15	Problem solving	1	Problem solving – place value	Solve number and practical problems that involve all of the above
Number – addition, subtraction, multiplication and division	15	Problem solving	2	Problem solving – negative numbers	Solve number and practical problems that involve all of the above
Number – addition, subtraction, multiplication and division	15	Problem solving	3	Problem solving – addition and subtraction	use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
Number – addition, subtraction, multiplication and division	15	Problem solving	4	Problem solving – four operations (1)	solve problems involving addition, subtraction, multiplication and division
Number – addition, subtraction, multiplication and division	15	Problem solving	5	Problem solving – four operations (2)	solve problems involving addition, subtraction, multiplication and division
Number – addition, subtraction, multiplication and division	15	Problem solving	6	Problem solving – fractions	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Number –	15	Problem solving	7	Problem solving – decimals	recall and use equivalences between simple

addition, subtraction, multiplication and division					fractions, decimals and percentages, including in different contexts
Number – addition, subtraction, multiplication and division	15	Problem solving	8	Problem solving – percentages	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Number – addition, subtraction, multiplication and division	15	Problem solving	9	Problem solving – ratio and proportion	solve problems involving unequal sharing and grouping using knowledge of fractions and multiples
Number – addition, subtraction, multiplication and division	15	Problem solving	10	Problem solving – time (1)	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 three decimal places
Number – addition, subtraction, multiplication and division	15	Problem solving	11	Problem solving – time (2)	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 three decimal places
Number – addition, subtraction, multiplication and division	15	Problem solving	12	Problem solving – position and direction	describe positions on the full coordinate grid (all four quadrants)
Number – addition, subtraction, multiplication and	15	Problem solving	13	Problem solving – properties of shapes (1)	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

division					
Number – addition, subtraction, multiplication and division	15	Problem solving	14	Problem solving – properties of shapes (2)	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles