

Long Term Plan for Mathematics – 2021-2022

Year 1

Autumn term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
06.09.21	13.09.21	20.09.21	27.09.21	04.10.21	11.10.21	18.10.21		01.11.21	08.11.21	15.11.21	22.11.21	29.11.21	06.12.21	13.12.21
<p>Unit 1: Previous Reception experiences and counting within 100 1 Learning Outcome 7 weeks statutory framework for the early years foundation stage DfE publication (pages 13-14 are specific to maths). DfE Development Matters Guidance 2020 (pages 51-59 are specific to maths).</p> <p>Early Years section on the NCETM website</p> <p>NB: Some schools are only planning to spend 4 weeks on this unit. The time you spend on it will depend on the needs of your class. Here is some further guidance/resources for these weeks as there are only 16 PPT slides.</p>							<p>Unit 2: Comparison of quantities and part-whole relationships 13 Learning Outcomes (LOs) 3 weeks 1NPV-1 pg 18 & 1NPV-2 pg 20</p> <p>Prior learning - previous experience to 1NPV-1 pg 16 & 1NPV-2 pg 16</p>			<p>Unit 3: Numbers 0-5 8 Learning Outcomes (LOs) 2 weeks 1NPV-2 pg 20 & 1AS-1 pg 30</p> <p>Prior learning - previous experience to 1NPV-2 pg 16 & 1AS-1 pg 17</p>		<p>Unit 4: Recognise, compose, decompose and manipulate 2D and 3D shapes 11 Learning Outcomes (LOs) 3 weeks 1G-1 pg 42 & 1G-2 pg 44</p>		
<p>1NPV-1 pg 18 Prior learning - previous experience to 1NPV-1 pg 16 1.9 Composition of numbers: 20-100 TP 1.1 only</p>							<p>LOs 1-4 1.1 Comparison of quantities and measures 1.1 to 2.9</p>	<p>LOs 5-8 1.1 3.1 to 3.6 1.2 Introducing 'whole' and 'parts': part-part-whole 1.1 to 2.3</p>	<p>LOs 9-13 1.2 3.1 to 4.7</p>	<p>LOs 1-4 1.3 Composition of numbers: 0-5 1.1 to 4.3 1AS-1</p>	<p>LOs 5-8 1.3 5.1 to 7.5 1AS-1</p>	<p>LOs 1-4 1G-2</p>	<p>LOs 5-8 1G-2 1G-1</p>	
Cardinality and Counting	Composition of numbers	Cardinality and counting Comparison	Shape and space	Unit 2 LQS 1-3 1.1	Unit 2 LQS 3-5 1.1	Unit 2 LQS 5-8 1.1		Unit 2 LQs 8 - 10	Unit 2 LQs 11 - 12	Unit 2 LQs 13 Unit 3: LQ 1	Unit 3 LQs 2 - 4	Unit 3 LQs 5- 8		

Year 2

Autumn term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
06.09.21	13.09.21	20.09.21	27.09.21	04.10.21	11.10.21	18.10.21		01.11.21	08.11.21	15.11.21	22.11.21	29.11.21	06.12.21	13.12.21
Unit 1: Numbers 10 to 100 17 Learning Outcomes (LOs) 4 weeks 2NPV-1 pg 51 & 2NPV-2 pg 53 Prior learning 1NPV-2 pg 20				Unit 2: Calculations within 20 13 Learning Outcomes (LOs) 3 weeks 2AS-1 pg 57 & 2AS-2 pg 59					Unit 3: Fluently add and subtract within 10 2 Learning Outcomes (LOs) 1 week* 2NF-1 pg 55 Prior learning 1NF-1 pg 24	Unit 4: Addition and subtraction of two-digit numbers (1) 20 Learning Outcomes (LOs) 2 weeks* 2AS-3 pg 62 Prior learning Add and subtract within 10, for example $6+3=9$; $6-2=4$; know that a multiple of 10 is made up from a number of tens, for example, 50 is 5 tens.	Unit 5: Introduction to multiplication 34 Learning Outcomes (LOs) 7 weeks 2MD-1 pg 69 Prior learning Recognise repeated addition contexts and represent them with multiplication equations. Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).			
LOs 1-5 1.8 Composition of numbers: multiples of 10 up to 100 1.1 to 3.7	LOs 6-10 1.8 4.1 to 5.9 1.9 Composition of numbers: 20-100 1.1 to 2.5	LOs 11-15 2NPV-1 2NPV-2 1.9 2.6 to 4.5	LOs 16-17 1.9 5.1 to 6.6	LOs 1-5 1.11 Addition and subtraction: bridging 10 1.1 to 4.10	LOs 6-10 1.11 5.1 to 6.8 2AS-1 1.12 Subtraction as difference 1.1 to 2.5 2AS-2	LOs 11-13 1.12 3.1 to 4.3 2AS-2		LOs 1-2 2NF-1 1.7 Addition and subtraction: strategies within 10 TP1-6 as required	LOs 1-11 1.13 Addition and subtraction: two-digit and single-digit numbers 1.1 to 4.9 2AS-3	LOs 12-20 1.14 Addition and subtraction: two-digit numbers and multiples of ten 1.1 to 4.3 2AS-3	LOs 1-5 2.2 Structures: multiplication on representing equal groups 1.1 to 4.4 2MD-1	LOs 6-10 2.2 5.1 to 5.4 2.3 Times tables: groups of 2 and commutativity (part 1) 1.1 to 2.5 2MD-1	LOs 11-15 2.3 2.6 to 3.4 2.4 Times tables: groups of 10 and of 5, and factors of 0 and 1 1.1 to 1.9 2MD-1	LOs 16-20 2.4 2.1 to 3.6
Unit 1 1.8 LOs 1-4	Unit 1 1.8 LOs 5-6	Unit 1 1.8 LOs 6-8	Unit 1 1.9 LOs 9-12	Unit 1 1.9 LOs 12-13	Unit 1 1.9 LOs 13-15	Unit 1 1.9 LOs 16-17		Unit 2 1.11 LOs 1-5	Unit 2 1.11 LOs 5-6	Unit 2 1.11 LO 6-7	Unit 2 1.12 LO 8-9	Unit 2 1.12 LO 10-13		

*These units may take longer than the suggested weeks

Year 3

Autumn term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
06.09.21	13.09.21	20.09.21	27.09.21	04.10.21	11.10.21	18.10.21		01.11.21	08.11.21	15.11.21	22.11.21	29.11.21	06.12.21	13.12.21
Unit 1: Adding and subtracting across 10 7 Learning Outcomes (LOs) 2 weeks 2AS-1 pg 57 & 3NF-1 pg 98		Unit 2: Numbers to 1,000 53 Learning Outcomes (LOs) 10 weeks 3NPV-1 pg 86, 3PNV-2 pg 88, 3NPV-3 pg 91, 3NPV-4 pg 95, 3NF-3 pg 103, 3AS-1 pg 106 Prior learning 2NPV-1 pg 51 & 2NPV-2 pg 53					Unit 2: Numbers to 1,000 Continued					Consolidation		
LOs 1-4 1.11 Addition and subtraction: bridging 10 1.1 to 4.4	LOs 5-7 1.11 4.5 to 6.8 2AS-1	LOs 1-5 1.17 Composition and calculation: 100 and bridging 10 1.1 to 2.8 3NPV-1 3NPV-4 3AS-1	LOs 6-10 1.17 2.9 to 3.13 3NPV-1 3NF-3	LOs 11-15 1.17 4.1 to 4.10	LOs 16-23 3NPV-1 (Developing a sense of measure (length) - additional resources from NC resource tool, White Rose and elsewhere may be needed)	LOs 24-28 1.18 Composition and calculation: three-digit numbers 1.1 to 2.4 3NPV-2 3NPV-3	LOs 29-33 1.18 2.5 to 3.4 3NPV-3	LOs 34-38 1.18 4.1 to 5.7	LOs 39-43 1.18 5.6 to 5.15	LOs 44-45 1.18 6.1 to 6.2 3NPV-4	LOs 46-53 (Developing a sense of measure (weight, capacity) - additional resources from NC resource tool, White Rose and elsewhere may be needed)			
UNIT 1 - LO 1-2	UNIT 1 - LO 3-4	UNIT 1 - LO 5-6	UNIT 1 - LO 7	UNIT 2 - LO 1-2	UNIT 2 - LO 3	UNIT 2 - LO		UNIT 2 - LO	UNIT 2 - LO	UNIT 2 - LO	UNIT 2 - LO 11-12			

Year 4

Autumn term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
06.09.21	13.09.21	20.09.21	27.09.21	04.10.21	11.10.21	18.10.21		01.11.21	08.11.21	15.11.21	22.11.21	29.11.21	06.12.21	13.12.21
Unit 1: Review of column addition and subtraction 16 Learning Outcomes (LOs) 3 weeks 3AS-2 pg 109			Unit 2: Numbers to 10,000 19 Learning Outcomes (LOs) 5 weeks 4NPV-1 pg 146, 4NPV-2 pg 149, 4NPV-3 pg 150, 4NPV-4 pg 155, 4NF-3 pg 166 Prior learning 3NPV-1 pg 86, 3NPV-2 pg 88, 3NPV-3 pg 91, 3NPV-4 pg 95. 3NF-3 pg 103				Unit 2 continued		Unit 3: Perimeter 9 Learning Outcomes (LOs) 2 weeks 4G-2 pg 197		Unit 4: 3, 6, 9 times tables 19 Learning Outcomes (LOs) 4 weeks 4NF-1 pg 160 Prior learning 3NF-2 pg 100			
LOs 1-5 1.20 Algorithms: column addition 1.1 to 3.5 3AS-2	LOs 6-10 1.20 4.1 to 5.5 3AS-2	LOs 11-16 1.21 Algorithms: column subtraction 1.1 to 2.10 3AS-2	LOs 1-4 1.22 Composition and calculation: 1,000 and four-digit numbers 1.1 to 2.7 4NPV-1 4NF-3	LOs 5-8 1.22 2.5 to 3.6 4NF-3 4NPV-2	LOs 9-12 1.22 3.7 to 4.6 4NPV-3	LOs 13-16 1.22 4.7 to 5.6 4NPV-3		LOs 17-19 1.22 5.3 to 6.5 (not 6.2) 4NPV-4	LOs 1-5 2.16 Multiplicative contexts: area and perimeter 1 1.1 to 2.4 4G-2	LOs 6-9 2.16 3.1 to 3.9 <i>(TP 4 is area so likely covered in another unit)</i>	LOs 1-5 2.8 Times tables: 3, 6, 9 and the relationship between them 1.1 to 2.9	LOs 6-10 2.8 2.10 to 4.7	LOs 11-15 2.8 4.8 to 5.6	LOs 16-19 2.8 5.7 to 6.7

Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
03.01.22	10.01.22	17.01.22	24.01.22	31.01.22	07.02.22	14.02.22		28.02.22	07.03.22	14.03.22	21.03.22	28.03.22	04.04.22
Unit 5: 7 times table and patterns			Consolidation		Unit 6: Understanding and manipulating multiplicative relationships			Unit 6 continued			Unit 7: Coordinates		Consolidation

Year 5

Autumn term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
06.09.21	13.09.21	20.09.21	27.09.21	04.10.21	11.10.21	18.10.21		01.11.21	08.11.21	15.11.21	22.11.21	29.11.21	06.12.21	13.12.21
Unit 1: Decimal fractions 25 Learning Outcomes (LOs) 5 weeks 5NPV-1 pg 212, 5NPV-2 pg 216, 5NPV-3 pg 219, 5NPV-4 pg 225, 5NF-2 pg 236 Prior learning 4NPV-1 pg 146, 4NPV-2 pg 149, 4NPV-3 pg 150, 4NPV-5 pg 155, 4NF-3 pg 166							Unit 2: Money 9 Learning Outcomes (LOs) 3 weeks		Unit 3: Negative numbers 9 Learning Outcomes (LOs) 2 weeks		Unit 4: Short multiplication and division 31 Learning Outcomes (LOs) 6 weeks 5MD-3 pg 248, 5MD-4 pg 252 Prior learning 4MD-3 pg 178			
LOs 1-5 1.23 Composition and calculation: tenths 1.1 to 3.13 5NPV-1 5NPV-3 5NPV-4	LOs 6-10 1.23 4.1 to 5.7 5NPV-3 5NF-2	LOs 11-15 1.23 6.1 to 6.6 5NPV-3 1.24 Composition and calculation: hundredths and thousandths 1.1 to 3.8 5NPV-1 5NPV-2 5NPV-3	LOs 16-20 1.24 4.1 to 6.4 5NPV-2 5NPV-4 5NF-2	LOs 21-25 1.24 6.5 to 7.3 5NPV-3	LOs 1-3 1.25 Addition and subtraction: money 1.1 to 1.8	LOs 4-6 1.25 2.1 to 4.6		LOs 7-9 1.25 4.4 to 5.3	LOs 1-5 1.27 Negative numbers: counting, comparing and calculating 1.1 to 4.6	LOs 6-9 1.27 4.7 to 6.4	LOs 1-5 2.14 Multiplication: partitioning leading to short multiplication 1.1 to 2.3	LOs 6-10 2.14 2.4 to 2.11	LOs 11-15 2.14 2.12 to 4.2	LOs 16-20 2.14 4.3 to 4.7 5MD-3 2.15 Division: partitioning leading to short division 1.1 to 1.4 and 1.7
1.23 LOs 1-3 (TPs 1.1-3.3 6)	1.23 LOs 4-7 (TPs 3.7-4.5)	1.23 LOs 8-9 (TPs 5.1-5.5)	1.23 LOs 10-11 (TPs 5.6-6.6)	1.24 LOs 12-14 (TPs 1.1-3.4)	1.24 LOs 15-16 (TPs 3.5-4.4)	1.24 LOs 17-18 (TPs 4.5-5.7)		1.24 LOs 19-20 (TPs 5.8-6.2)	1.24 LOs 20-21 (TPs 6.3-6.7)	1.24 LOs 21-22 (TPs 6.6-7.1)	1.24 LOs 23-25 (TPs 7.2-8.1) 1.25 LOs 1-4 (TPs 1.1-1.8)	1.25 LOs 5-6 (TPs 2.1-3.3)	1.25 LOs 7-9 (TPs 4.1-5.1)	1.25 LOs 9-10 (TPs 5.2-5.3)

Year 6

Autumn term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
06.09.21	13.09.21	20.09.21	27.09.21	04.10.21	11.10.21	18.10.21		01.11.21	08.11.21	15.11.21	22.11.21	29.11.21	06.12.21	13.12.21
Unit 1: Calculating using knowledge of structures (1) 28 Learning Outcomes (LOs) 6 weeks 6AS/MD-1 pg 298 & 6AS/MD-2 pg 302							Unit 2: Multiples of 1,000 10 Learning Outcomes (LOs) 2 weeks	Unit 2 continued	Unit 3: Numbers up to 10,000,000 22 Learning Outcomes (LOs) 4 weeks 6NPV-1 pg 282, 6NPV-2 pg 286, 6NPV-3 pg 289, 6NPV-4 pg 294 Prior learning 5NPV-1 pg 212, 5NPV-2 pg 216, 5NPV-3 pg 219, 5NPV-4 pg 225			Unit 4: Draw, compose and decompose shapes 7 Learning Outcomes (LOs) 2 weeks 6G-1 pg 322 Prior learning 4G-2 pg 197, 5G-1 pg 265, 5G-2 pg 269		
LOs 1-5 1.28 Common structures and the part-part-whole relationship 1.1 to 2.6 6AS/MD-1	LOs 6-10 1.28 2.7 to 3.7 1.29 Using equivalence and the compensation property to calculate 1.1 to 1.2 & 1.10	LOs 11-15 1.29 1.3 to 2.6	LOs 16-20 1.29 2.7 to 3.13	LOs 21-25 1.29 4.1 to 5.1 6AS/MD-2	LOs 26-28 1.29 5.2 to 5.7	LOs 1-5 1.26 Composition and calculation: multiples of 1,000 to 1,000,000 1.1 to 2.2		LOs 6-10 1.26 2.3 to 2.6 6.1 to 6.4	LOs 1-5 1.30 Composition and calculation: numbers up to 10,000,000 1.1 to 2.6 6NPV-1 6NPV-4 6NPV-2	LOs 6-10 1.30 2.7 to 4.3 6NPV-2	LOs 11-16 1.30 4.4 to 5.8 6NPV-3	LOs 17-22 1.30 5.9 to 6.13 6NPV-3	LOs 1-4 6G-1 2.30 Multiplicative contexts: area and perimeter 2 1.1 to 1.7	LOs 5-7 2.30 2.1 to 3.5 6G-1
Unit 1 LO 1-2	Unit 1 LO 3 - 6	Unit 1 LO 7 - 9	Unit 1 LO 10 - 11	Unit 1 LO 12 - 14	Unit 1 LO 15 - 16	Unit 1 LO17-19		Unit 1 LO	Unit 1 LO Unit 2 LO1	Unit 2 LO2-5	Unit 2 LO6-8	Unit 2 LO9-10 Unit 3		

Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
25.04.22	02.05.22	09.05.22	16.05.22	23.05.22			07.06.21	14.06.21	21.06.21	28.06.21	05.07.21	12.07.21	19.07.21
		SATs Week											
Unit 8: Statistics	SATs preparation			Unit 9: Ratio and proportion		Unit 9 continued	Unit 10: Calculating using knowledge of structures	Unit 11: Solving problems with two unknowns	Unit 12: Order of operations	Unit 13: Mean average			