Year 1

Long Term Plan for Mathematics – 2022-2023

NB: The teaching sequence for these units with the related Ready to Progress (RtP) and NCETM PD Material segments are set out in a well thought through coherent order. They have been driven by the NC Guidance (RtP) which has altered the year group of when some segments are taught. This is to allow for greater coherence and to reduce cognitive load. It allows for a focus on core concepts e.g. focus on addition and subtraction in years 1 to 3 reducing cognitive load.
There may be some units that you make the decision to move to fit in with when half terms fall e.g. Geometry units. Please do not alter the order of the NCETM PD Material Spine Segments.
The class teacher still needs to decide how long to spend on each lesson and unit of work. If children need to go back and cover previous content then that is the decision of each class teacher as you will know what is best for your class. There are two weeks of consolidation time positioned at the end of the year. However, these consolidation weeks can be split up and moved to other points in the year.

The first row shows the **NCETM Curriculum Prioritisation unit** with the linked RtP criteria for the unit as well as for prior learning. Find the NCETM cp map for your year group and the lesson slides here. The second row shows the linked RtP criteria and NCETM PD Material Segments, Teaching Point and steps in learning. The third row is for the teacher to record the actual coverage each week. Record Unit and LOs only.

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
05.09.22	12.09.22	19.09.22	26.09.22	03.10.22	10.10.22	17.10.22		31.10.22	07.11.22	14.11.22	21.11.22	28.11.22	05.12.22	12.12.22
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). Early Years section on the NCETM website 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.								**Unit 2: Comparison of quantities and part-whole relationships** 13 Learning Outcomes (LOs) 3 weeks 1NPV-1 pg 18 & 1NPV-2 pg 20 Prior learning 1NPV-1 pg 16 & 1NPV-2 pg 16			**Unit 3: Numbers 0-5** 8 Learning Outcomes (LOs) 2 weeks 1NPV-2 pg 20 & 1AS-1 pg 30 Prior learning 1NPV-2 pg 16 & 1AS-1 pg 17		**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	
1NPV-1 pg 18 Prior learning - previous experience to 1NPV-1 pg 16 1.9 Composition of numbers: 20-100 TP 1.1 only								LOs 1-4 1.1 Comparison of quantities and measures 1.1 to 2.9	LOs 5-8 1.1 3.1 to 3.6 1.2 Introducing 'whole' and 'parts': part-part-whole 1.1 to 2.3	LOs 9-13 1.2 3.1 to 4.7	LOs 1-4 1.3 Composition of numbers: 0-5 1.1 to 4.3 1AS-1	LOs 5-8 1.3 5.1 to 7.5 1AS-1	LOs 1-4 1G-2	LOs 5-8 1G-2 1G-1

Year 1

Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
02.01.23	09.01.23	16.01.23	23.01.23	30.01.23	06.02.23		20.02.23	27.02.23	06.03.23	13.03.23	20.03.23	27.03.23
Unit 4: Recognise, compose, decompose and manipulate 2D and 3D shapes	**Unit 5: Numbers 0-10** 10 Learning Outcomes (LOs) 3 weeks 1NPV-2 pg 20 & 1AS-1 pg 30 Prior learning Y1 Unit 3: Numbers 0 to 5			**Unit 6: Additive structures** 19 Learning Outcomes (LOs) 4 weeks 1AS-2 pg 36 Prior learning 1AS-2 pg 17			Unit 6 continued		**Unit 7: Addition and subtraction facts within 10** 14 Learning Outcomes (LOs) 3 weeks 1NF-1 pg 24 Prior learning 1NF-1 pg 16			**Unit 8: Numbers 0-20** 15 Learning Outcomes (LOs) 4 weeks 1NPV-2 pg 20 Prior learning Y1 Unit 5: Numbers 0 to 10
LOs 9-11 1G-1	LOs 1-4 1.4 Composition of numbers: 6-10 1.1 to 1.10 1AS-1	LOs 5-7 1.4 2.1 to 3.8 1NPV-2	LOs 8-10 1.4 4.1 to 5.2	LOs 1-5 1.5 Additive structures: introduction to aggregation and partitioning 1.1 to 3.3	LOs 6-10 1.5 3.4 to 4.4 1AS-2 1.6 Additive structures: introduction to augmentation and reduction 1.1 to 1.7		LOs 11-15 1.6 2.1 to 3.4 1AS-2	LOs 16-19 1.6 3.2 to 4.6 1AS-2	LOs 1-5 1.7 Addition and subtraction: strategies within 10 1.1 to 4.5 1NF-1	LOs 6-10 1.7 5.1 to 9.4 1NF-1	LOs 11-14 1.7 9.1 to 10.3 1NF-1	LOs 1-4 1.10 Composition of numbers: 11-19 1.1 to 2.6 1NPV-2

Year 1

Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
17.04.23	24.04.23	01.05.23	08.05.23	15.05.23	22.05.23		05.06.23	12.06.23	19.06.23	26.06.23	03.07.23	10.07.23	17.07.23
Unit 8 continued			**Unit 9: Unitising and coin recognition** 16 Learning Outcomes (LOs) 5 weeks 1NF-2 pg 26 Prior learning - previous experience 1NF-2 pg 16				Unit 9: continued		**Unit 10: Position and direction** 1 week	**Unit 11: Time** 2 weeks		Consolidation	
LOs 5-9 1.10 2.7 to 5.5 1NF-2	LOs 10-13 1.10 5.7 LOs 11-12 use resources from NC resource tool 1NPV-2 pg 20-23	LOs 14&15 1NPV-2 pg 20-23 LOs 15 use resources from NC resource tool	LOs 1-3 2.1 Counting, unitising and coins 1.1 to 3.5 1NF-2	LOs 4-6 2.1 3.6 to 4.3 1NF-2	LOs 7-9 2.1 4.4 to 5.3 1NF-2		LOs 10-13 2.1 5.4 (5.2) to 5.7 1NF-2	LOs 14-16 2.1 6.1 to 6.6	Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available.	Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available.			

Year 2

Long Term Plan for Mathematics – 2022-2023

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There may be some units that you make the decision to move to fit in with when half terms fall e.g. Geometry units. Please do not alter the order of the NCETM PD Material Spine Segments.
The class teacher still needs to decide how long to spend on each lesson and unit of work. If children need to go back and cover previous content then that is the decision of each class teacher as you will know what is best for your class.
You will see there are 5 weeks for consolidation at the end of the year. However, these consolidation weeks can be split up and moved to other points in the year. Or, you may wish to have some time to prepare for SATs; to teach units 12, 13 and 14 in brief and then cover them in more depth after SATs or to have more flexibility with lessons during the period of May when testing is scheduled.

The first row shows the **NCETM Curriculum Prioritisation unit** with the linked RtP criteria for the unit as well as for prior learning. Find the NCETM cp map for your year group and the lesson slides here. The second row shows the linked RtP criteria and NCETM PD Material Segments, Teaching Point and steps in learning. The third row is for the teacher to record the actual coverage each week. Record Unit and LOs only.

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
05.09.22	12.09.22	19.09.22	26.09.22	03.10.22	10.10.22	17.10.22		31.10.22	07.11.22	14.11.22	21.11.22	28.11.22	05.12.22	12.12.22
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	LOs 6-10 1.8 4.1 to 5.9 1.9	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	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	LOs 1-11 1.13 Addition and subtraction: two-digit and	LOs 12-20 1.14 Addition and subtraction: two-digit numbers and	LOs 1-5 2.2 Structures: multiplicatio n representing	LOs 6-10 2.2 5.1 to 5.4 2.3 Times tables: groups of 2 and	LOs 11-15 2.3 2.6 to 3.4 2.4 Times tables: groups of 10 and of 5,	LOs 16-20 2.4 2.1 to 3.6

Year 2

1.1 to 3.7	Composition of numbers: 20-100 1.1 to 2.5				1.1 to 2.5 2AS-2			TP1-6 as required	single-digit numbers 1.1 to 4.9 2AS-3	multiples of ten 1.1 to 4.3 2AS-3	equal groups 1.1 to 4.4 2MD-1	commutativity (part 1) 1.1 to 2.5 2MD-1	and factors of 0 and 1 1.1 to 1.9 2MD-1	

*These units may take longer than the suggested weeks

Year 2

Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
02.01.23	09.01.23	16.01.23	23.01.23	30.01.23	06.02.23		20.02.23	27.02.23	06.03.23	13.03.23	20.03.23	27.03.23
Unit 5: Introduction to multiplication continued			**Unit 6: Introduction to division structures** 11 Learning Outcomes (LOs) 2 weeks 2MD-2 pg 72		**Unit 7: Shape** 8 Learning Outcomes (LOs) 2 weeks 2G-1 pg 74 Prior learning 1G-1 pg 42		Unit 7: continued	**Unit 8: Addition and subtraction of two-digit numbers (2)** 12 Learning Outcomes (LOs) 3 weeks 2AS-4 pg 66 Prior learning 2AS-3 pg 62			**Unit 9: Money** 1 week	**Unit 10: Fractions** 9 Learning Outcomes (LOs) 2 weeks
LOs 21-25 2.4 3.7 to 4.6 2.5 Commutativity (part 2), doubling and halving 1.1 to 1.9	LOs 26-30 2.5 1.10 to 2.9	LOs 31-34 2.5 3.1 to 3.9 (TP4 is included in unit 13.)	LOs 1-6 2.6 Structures: quotitive and partitive division 1.1 to 2.11 2MD-2	LOs 7-11 2.6 2.12 to 3.10 2MD-2	LOs 1-4 2G-1 pg 74-75		LOs 5-8 2G-1 pg 75	LOs 1-4 1.15 Addition: two-digit and two-digit numbers 1.1 to 2.5 2AS-4	LOs 5-8 1.15 2.6 to 2.8 1.16 Subtraction: two-digit and two-digit numbers 1.1 to 2.2 2AS-4	LOs 9-12 1.16 2.3 to 2.9 2AS-4	Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available.	LOs 1-5 3.0 Guidance on the teaching of fractions in Key Stage 1 Teaching progression point 1 pg 1 to TPP 2 pg 3

Year 2

Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
17.04.23	24.04.23	01.05.23	08.05.23	15.05.23	22.05.23		05.06.23	12.06.23	19.06.23	26.06.23	03.07.23	10.07.23	17.07.23
		SATs											
Unit 10: continued	**Unit 11: Time** 1 week	**Unit 12: Position and direction** 1 week	**Unit 13: Multiplication and division - doubling, halving, quotitive and partitive division** 16 Learning Outcomes (LOs) 3 weeks				**Unit 14: Sense of measure - capacity, volume, mass** 2 weeks		Consolidation				
LOs 6-9 3.0 Guidance on the teaching of fractions in Key Stage 1 Teaching progression point 3 pg 4 to TPP 5 pg 7	Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available	Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available	LOs 1-5 2.5 Commutativity (part 2), doubling and halving 4.1 to 4.7 (Previous TPs were covered in unit 5.)	LOs 6-11 2.5 4.1 to 4.11	LOs 12-16 2.5 4.12 to 5.6		Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available						

Year 3

Long Term Plan for Mathematics – 2022-2023

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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
05.09.22	12.09.22	19.09.22	26.09.22	03.10.22	10.10.22	17.10.22		31.10.22	07.11.22	14.11.22	21.11.22	28.11.22	05.12.22	12.12.22
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 NCETM 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)		

Year 3

Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
02.01.23	09.01.23	16.01.23	23.01.23	30.01.23	06.02.23		20.02.23	27.02.23	06.03.23	13.03.23	20.03.23	27.03.23
Unit 3: Right angles 8 Learning Outcomes (LOs) 2 weeks 3G-1 pg 134		**Unit 4: Manipulating the additive relationship and securing mental calculation** 15 Learning Outcomes (LOs) 4 weeks 3AS-3 pg 113					**Unit 5: Column addition** 10 Learning Outcomes (LOs) 2 weeks 3AS-2 pg 109	**Unit 5 continued**	**Unit 6: 2, 4, 8 times tables** 15 Learning Outcomes (LOs) 3 weeks 3NF-2 pg 100, 3MD-1 pg 117, 3NF-3 pg 103 Prior learning 1NF-2 pg 26			**Unit 7: Column subtraction** 6 Learning Outcomes (LOs) 1 week 3AS-2 pg 109
LOs 1-4 3G-1 pg 134-137	LOs 5-8 3G-1 pg 134-137	LOs 1-4 1.19 Securing Mental Strategies: calculation up to 999 1.1 to 3.2	LOs 5-8 1.19 3.3 to 4.2	LOs 1-5 1.20 Algorithms: column addition 1.1 to 3.5 3AS-2	LOs 13-15 3AS-3 pg 113-116		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 1-5 2.7 Times tables: 2, 4 and 8 and the relationship between them 1.1 to 2.8	LOs 6-10 2.7 3.1 to 4.11	LOs 11-15 2.7 4.12 to 5.7 3NF-3 pg 103-105	LOs 1-6 1.21 Algorithms: column subtraction 1.1 to 2.10 3AS-2

Year 3

Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
17.04.23	24.04.23	01.05.23	08.05.23	15.05.23	22.05.23		05.06.23	12.06.23	19.06.23	26.06.23	03.07.23	10.07.23	17.07.23
Unit 8: Unit fractions 21 Learning Outcomes (LOs) 5 weeks 3F-1 pg 120 & 3F-2 pg 124					**Unit 9: Non-unit fractions**		Unit 9 continued 20 Learning Outcomes (LOs) 4 weeks 3F-1 pg 120, 3F-3 pg 127, 3F-4 pg 131			**Unit 10: parallel and perpendicular sides in polygons** 9 Learning Outcomes (LOs) 2 weeks 3G-2 pg 137		**Unit 11: Time** 1 week 3NPV-? pg Prior learning 2NPV-? pg	Consolidation
LOs 1-4 3.1 Preparing for fractions: the part whole relationship 1.1 to 2.7	LOs 5-8 3.1 3.1 to 4.5 3.2 Unit fractions: identify, representing and comparing 1.1 to 2.4 3F-1	LOs 9-12 3.2 2.5 to 4.6 3F-1	LOs 13-16 3.2 5.1 to 6.9	LOs 17-21 3F-2 pg 124-126	LOs 1-5 3.3 Non-unit fractions: identify, representing and comparing 1.1 to 3.5 3F-1		LOs 6-10 3.3 4.1 to 7.6 3F-3	LOs 11-15 3.3 8.1 to 8.13 3.4 Adding and subtracting within one whole 1.1 to 1.15 3F-4	LOs 16-20 3.4 2.1 to 4.5 3F-4	LOs 1-5 3G-2 pg 137-139	LOs 6-9 3G-2 pg 137-139	Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available.	

Year 4

Long Term Plan for Mathematics – 2022-2023

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There may be some units that you make the decision to move to fit in with when half terms fall e.g. Geometry units. Please do not alter the order of the NCETM PD Material Spine Segments.
The class teacher still needs to decide how long to spend on each lesson and unit of work. If children need to go back and cover previous content then that is the decision of each class teacher as you will know what is best for your class. There are **4 'spare' weeks at the end of the year** that could be moved to various points within the year for consolidation of units. Plus an additional 'spare' week to review time tables before the May half Term to prepare for the MTC which again can be moved to suit your class.

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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
05.09.22	12.09.22	19.09.22	26.09.22	03.10.22	10.10.22	17.10.22		31.10.22	07.11.22	14.11.22	21.11.22	28.11.22	05.12.22	12.12.22
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 *(TP 4 is area so likely covered in another unit)*	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

Year 4

Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
02.01.23	09.01.23	16.01.23	23.01.23	30.01.23	06.02.23		20.02.23	27.02.23	06.03.23	13.03.23	20.03.23	27.03.23
Unit 5: 7 times table and patterns 6 Learning Outcomes (LOs) 2 weeks 4NF-1 pg 160 Prior learning 3NF-2 pg 100		**Unit 6: Understanding and manipulating multiplicative relationships** 26 Learning Outcomes (LOs) 5 weeks 4MD-1 pg 170, 4MD-2 pg 173, 4MD-3 pg 178, 4NF-3 pg 166 Prior learning 3NF-3 pg 103					Unit 6: continued	**Unit 7: Coordinates** 8 Learning Outcomes (LOs) 2 weeks 4G-1 pg 192 Prior learning 3G-1 pg 134 & 3G-2 pg 137		**Unit 8: Review of fractions** 6 Learning Outcomes (LOs) 1 week 3F-1 pg 120	**Unit 9: Fractions greater than 1** 20 Learning Outcomes (LOs) 5 weeks 4F-1 pg 182, 4F-2 pg 185, 4F-3 pg 188 Prior learning 3F-3 pg 127 & 3F-4 pg 131	
LOs 1-3 2.9 Times Tables: 7 and patterns within/across times tables 1.1 to 1.11	LOs 4-6 2.9 2.1 to 4.3	LOs 1-6 2.10 Connecting multiplication and division, and the distributive law 1.1 to 2.8 4MD-2 4MD-3	LOs 7-11 2.10 2.9 to 3.3 4MD-3 2.13 Calculation: multiplying and dividing by 10 and 100 1.1 to 1.9	LOs 12-16 2.13 2.1 to 3.8	LOs 17-21 2.13 4.1 to 6.4 and 6.7		LOs 22-26 2.13 4.1 to 6.4 and 6.5 to 7.8 4NF-3 pg 166 - 169	LOs 1-4 4G-1 pg 192-193	LOs 5-8 4G-1 pg 193-194	LOs 1-6 3.1 Preparing for fractions: the part whole relationship 1.1 to 4.5	LOs 1-4 3.5 Working across one whole: improper fractions and mixed numbers 1.1 to 2.5 4F-1	LOs 5-8 3.5 2.6 to 3.4 4F-1

Year 4

Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
17.04.23	24.04.23	01.05.23	08.05.23	15.05.23	22.05.23		05.06.23	12.06.23	19.06.23	26.06.23	03.07.23	10.07.23	17.07.23
							Multiplication Tables check						
Unit 9 continued			**Unit 10: Symmetry in 2D shapes** 6 Learning Outcomes (LOs) 2 weeks 4G-3 pg 201		Review times tables		**Unit 11: Time** 1 week	**Unit 12: Division with remainders** 8 Learning Outcomes (LOs) 2 weeks 4NF-2 pg 163		Consolidation			
LOs 9-12 3.5 3.5 to 5.6 4F-2	LOs 13-16 3.5 5.7 to 5.17 4F-2	LOs 17-20 3.5 6.1 to 6.12 4F-3	LOs 1-3 4G-3 pg 201-204	LOs 4-6 4G-3 pg 201-204			Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available.	LOs 1-4 2.12 Division with remainders 1.1 to 2.3 4NF-2	LOs 5-8 2.12 2.4 to 3.5 4NF-2				

Year 5

Long Term Plan for Mathematics – 2022-2023

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There may be some units that you make the decision to move to fit in with when half terms fall e.g. Geometry units. Please do not alter the order of the NCETM PD Material Spine Segments.
The class teacher still needs to decide how long to spend on each lesson and unit of work. If children need to go back and cover previous content then that is the decision of each class teacher as you will know what is best for your class. The consolidation/spare week can be moved to any point in the year.

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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
05.09.22	12.09.22	19.09.22	26.09.22	03.10.22	10.10.22	17.10.22		31.10.22	07.11.22	14.11.22	21.11.22	28.11.22	05.12.22	12.12.22
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)23 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 1-5 1.25 Addition and subtraction: money 1.1 to 2.5	LOs 6-9 1.25 3.1 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	LOs 21-25 2.15 1.5 and 1.7 2.1 to2.10 3.1 to 3.4

Year 5

Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
02.01.23	09.01.23	16.01.23	23.01.23	30.01.23	06.02.23		20.02.23	27.02.23	06.03.23	13.03.23	20.03.23	27.03.23
Unit 4 continued	**Unit 5: Area and scaling** 17 Learning Outcomes (LOs) 5 weeks 5G-2 pg 269						**Unit 6: Calculating with decimal fractions**	**Unit 6: Calculating with decimal fractions** 15 Learning Outcomes (LOs) 3 weeks 5MD-1 pg 241 Prior learning 4MD-1 pg 170		**Unit 7: Factors, multiples and primes** 16 Learning Outcomes (LOs) 4 weeks 5MD-2 pg 245 Prior learning 4MD-2 pg 173		
LOs 26-31 2.15 3.2 to 4.11 5MD-4	LOs 1-3 2.16 Multiplicative contexts: Area and Perimeter 1 4.1 to 4.7 5G-2 additional resources from NC resource tool	LOs 4-7 additional resources from NC resource tool 2.16 5.1 to 6.6 5G-2	LOs 8-11 2.16 6.7 to 6.9 2.17 Structures: using measures and comparison to understand scaling 1.1 to 1.7	LOs 12-14 2.17 2.1 to 3.1	LOs 15-17 2.17 3.2 to 3.3		LOs 1-5 2.29 Decimal place value knowledge, multiplication and division 1.1 to 2.5 5MD-1	LOs 6-10 2.19 Calculation: x/÷ decimal fractions by whole numbers 1.1 to 2.5	LOs 11-15 2.19 3.1 to 5.10	LOs 1-4 2.20 Multiplication with three factors and volume 1.1 to 3.6	LOs 5-8 2.20 3.8 to 5.4	LOs 9-12 2.21 Factors, multiples, prime numbers and composite numbers 1.1 to 3.3 5MD-2

Year 5

Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
17.04.23	24.04.23	01.05.23	08.05.23	15.05.23	22.05.23		05.06.23	12.06.23	19.06.23	26.06.23	03.07.23	10.07.23	17.07.23
Unit 7: continued	**Unit 8: Fractions** 35 Learning Outcomes (LOs) 7 weeks 5NPV-5 pg 229, 5F-1 pg 255, 5F-2 pg 258, 5F-3 pg 262 Prior learning 3F-2 pg 124						Unit 8 continued		**Unit 9: Converting units** 9 Learning Outcomes (LOs) 2 weeks 5NPV-5 pg 229		**Unit 10: Angles and transformations** 5 Learning Outcomes (LOs) 3 weeks 5G-1 pg 265		Consolidation
LOs 13-16 2.21 4.1 to 6.3 5MD-2	LOs 1-5 3.6 Multiplying whole numbers and fractions 1.1 to 1.18	LOs 6-10 3.6 2.1 to 3.10 5F-1	LOs 11-15 3.6 3.11 to 4.8	LOs 16-20 3.6 5.1 to 5.12 3.7 Finding equivalent fractions and simplifying fractions 1.1 to 1.5 5F-2	LOs 21-25 3.7 1.6 to 2.11 5F-2		LOs 26-30 3.7 2.12 to 2.23 5F-2 3.10 Linking fractions, decimals and percentages 1.1 to 1.8 5F-3	LOs 31-35 3.10 1.9 to 3.6 5F-3	LOs 1-5 5NPV-5 pg 229-333	LOs 6-9 5NPV-5 pg 229-333 for support with lesson and task design refer to the NCETM NC resource tool	LOs 1-2 5G-1 pg 265	LOs 3-5 5G-1 pg 266-267	

Year 6

Long Term Plan for Mathematics – 2022-2023

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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
05.09.22	12.09.22	19.09.22	26.09.22	03.10.22	10.10.22	17.10.22		31.10.22	07.11.22	14.11.22	21.11.22	28.11.22	05.12.22	12.12.22
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 2.30 Multiplicative contexts: area and perimeter 2 1.1 to 1.7 6G-1	LOs 5-7 2.30 2.1 to 3.5 6G-1

Year 6

Spring term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
02.01.23	09.01.23	16.01.23	23.01.23	30.01.23	06.02.23		20.02.23	27.02.23	06.03.23	13.03.23	20.03.23	27.03.23
Unit 5: Multiplication and division 29 Learning Outcomes (LOs) 4 weeks 6AS/MD-2 pg 302				**Unit 6: Area, perimeter, position and direction** 8 Learning Outcomes (LOs) 2 weeks			**Unit 7: Fractions and percentages** 35 Learning Outcomes (LOs) 6 weeks 6F-1 pg 312, 6F-2 pg 316, 6F-3 pg 319 Prior learning 5F-2 pg 258					
LOs 1-7 2.18 Using equivalence to calculate 1.1 to 2.6 and 2.11 2.23 Multiplication strategies for larger numbers and long multiplication 3.1 to 4.4 6AS/MD-2	LOs 8-14 2.23 4.5 to 5.6 2.24 Division: dividing by two- digit numbers 1.1 to 1.3	LOs 15-21 2.24 1.4 to 3.2	LOs 22-29 2.24 3.3 to 3.7 2.25 Using compensation to calculate 1.1 to 3.4 6AS/MD-2	LOs 1-4 2.30 Multiplicative contexts: area and perimeter 2 1.1 to 3.5	LOs 5-8 2.30 Multiplicative contexts: area and perimeter 2 3.6 to 4.5 Additional resources from NCETM NC Resource Tool		LOs 1-6 3.7 Finding equivalent fractions and simplifying fractions 3.1 to 3.15 6F-1 3.8 Common denomination : more adding and subtracting 1.1 to 1.5 6F-2	LOs 7-12 3.8 Common denomination : more adding and subtracting 1.6 to 3.8	LOs 13-18 3.8 3.6 to 5.9 6F-2 6F-3	LOs 19-24 3.8 5.10 to 5.15 6F-3 3.9 Multiplying fractions and dividing fractions by a whole number 1.1 to 2.9	LOs 25-30 3.9 3.1 to 3.8 3.10 Linking fractions, decimals and percentages 4.1 to 5.11	LOs 31-35 3.10 6.1 to 6.15

Year 6

Summer term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Half Term	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
17.04.23	24.04.23	01.05.23	08.05.23	15.05.23	22.05.23		05.06.23	12.06.23	19.06.23	26.06.23	03.07.23	10.07.23	17.07.23
			SATs Week										
Unit 8: Statistics 1 week	SATs preparation			**Unit 9: Ratio and proportion** 10 Learning Outcomes (LOs) 2 weeks 6AS/MD-3 pg 305			**Unit 10: Calculating using knowledge of structures (2)** 5 Learning Outcomes (LOs) 1 week 6AS/MD-2 pg 302	**Unit 11: Solving problems with two unknowns** 15 Learning Outcomes (LOs) 2 weeks 6AS/MD-4 pg 308		**Unit 12: Order of operations** 8 Learning Outcomes (LOs) 1 week	**Unit 13: Mean average** 6 Learning Outcomes (LOs) 1 week		
Use existing resources and the information and suggestions here to plan this unit as there are no NCETM classroom slides available.				LOs 1-5 2.27 Scale factors, ratio and proportional reasoning 1.1 to 2.5 6AS/MD-3	LOs 6-10 2.27 2.6 to 4.10		LOs 1-5 1.29 Using equivalence and the compensation property to calculate 6.1 to 6.8	LOs 1-8 1.31 Problems with two unknowns 1.1 to 4.2 6AS/MD-4	LOs 9-15 1.31 4.3 to 5.7 6AS/MD-4	LOs 1-8 2.22 Combining multiplication with addition and subtraction 1.1 to 2.5 2.28 Combining division with addition and subtraction 1.1 to 2.5	LOs 1-6 2.26 Mean average and equal shares 1.1 to 4.2		