Year 3 Maths Long Term Curriculum Overview

Rationale

This overview is designed to run alongside the White Rose Schemes of Learning (Version 3.0) found here. The small steps within White Rose are not necessarily designed to cover one lesson so some may be repeated which can be used to consolidate concepts or allow children greater access to reasoning and problem solving. This is particularly evident in the Y1 schemes. The lessons that are linked to the DFE ready to progress criteria are identified with a reference such as **(NPV-1),** teachers can use these to refer to the document for additional planning support.

Vocabulary

There are also two vocabulary rows on the document, which show the subject specific vocabulary that needs to be introduced or re-introduced as part of the unit as well as what should have been covered in the previous year group.

Consolidation/revisiting

Daily 'Flashback 4s' are used to revisit and consolidate learning as they reduce workload for teachers and comprehensively revisit taught content.

The beginning of the units include steps from the previous year to ensure children have the required knowledge to access new learning.

Consolidation weeks are built in throughout the year for teachers to revisit or consolidate concepts.

Autumn 1	**Week 1**	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**	**Week 7**
Units	**Number: Place Value**	**Number: Place Value**	**Number: Place Value**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Addition and subtraction**
Lesson objectives (Small steps)	1) Represent numbers to 100 **(NPV-2)** 2) Partition numbers to 100 **(NPV-2)** 3) Numbers line to 100 **(NPV-3)** 4) Hundreds **(NPV-1, NPV-2)** 5) Represent numbers to 1000 **(NPV-2)**	6) Partition numbers to 1000 **(NPV-2)** 7) Flexible partitioning of numbers to 1000 **(NPV-2)** 8) Hundreds, tens and ones **(NPV-2)** 9) Find 1,10 and 100 more or less **(NPV-3)** 10) Number line to 1000 **(NPV-3)**	11) Estimate on a number line to 1000 **(NPV-3)** 12) Compare numbers to 1000 **(NPV-3)** 13) Order numbers to 1000 **(NPV-3)** 14) Count in 50s **(NPV-4)** 15) Mini-assessment (end of unit assessment)	1) Apply number bonds within 10 2) Add and subtract 1s **(AS-2)** 3) Add and subtract 10s **(AS-2)** 4) Add and subtract 100s **(AS-2)** 5) Spot the pattern **(AS-2)**	6) Add 1s across a 10 **(AS-2)** 7) Add 10s across 100 **(AS-2)** 8) Subtract 1s across a 10 **(AS-2)** 9) Subtract 10s across 100 **(AS-2)** 10) Make connections **(AS-2)**	11) Add two numbers (no exchange) **(AS-2)** 12) Subtract two numbers (no exchange) **(AS-2)** 13) Add two numbers (across a 10) **(AS-2)** 14) Add two numbers (across a 100) **(AS-2)**	15) Subtract two numbers (across a 10) **(AS-2)** 16) Subtract two numbers (across a 100) **(AS-2)** 17) Add 2-digit and 3-digit numbers **(AS-2)** 18) Subtract a 2-digit number from a 3-digit number **(AS-2)**
Vocabulary (Year group specific)	Three-digit hundreds	Three-digit 10 or 100 more 10 or 100 less hundreds	Three-digit Ascending Descending hundreds 10 or 100 more 10 or 100 less	3 digit number Estimate	3-digit number Column addition Column subtraction Estimate Exchange	3-digit number Column addition Column subtraction Estimate Exchange	3-digit number Column addition Column subtraction Estimate Exchange
Previous years Vocabulary	Multiples Place value Compare Count in steps Estimate Partition Tens Ones	Place value Compare Count in steps Estimate Partition Tens Ones	Multiples Place value Compare Count in steps Digit Two digits Estimate	Facts 2-digit number Commutative Inverse Number bonds Addition/add Subtraction/subtract	Facts 2-digit number Commutative Inverse Addition/add Subtraction/subtract	Facts 2-digit number Commutative Inverse Addition/add Subtraction/subtract	Facts 2-digit number Commutative Inverse Addition/add Subtraction/subtract

Autumn 2	**Week 1**	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**	**Week 7**
Units	**Number: Addition and subtraction**	**Number: Multiplication and division A**	**Assessment/ consolidation week**	**Number: Multiplication and division A**	**Number: Multiplication and division A**	**Number: Multiplication and division A**	**Consolidation week**
Lesson objectives (Small steps)	19) Complements to 100 **(AS-1)** 20) Estimate answers **(AS-2)** 21) Inverse operations **(AS-2)** 22) Make decisions 23) Mini-assessment (end of unit assessment)	1) Multiplication – equal groups **(MD-1)** 2) Using arrays **(MD-1)** 3) Multiples of 2 **(MD-1)** 4) Multiples of 5 and 10 **(MD-1)**	Assessment week or consolidation week. This can also act as a buffer for any units that overran	5) Sharing and grouping **(MD-1)** 6) Multiply by 3 **(MD-1)** 7) Divide by 3 **(MD-1)** 8) The 3 times-table **(NF -2)**	9) Multiply by 4 **(MD-1)** 10) Divide by 4 **(MD-1)** 11) The 4 times-tables **(NF -2)** 12) Multiply by 8 **(MD-1)**	13) Divide by 8 **(MD-1)** 14) The 8 times-table **(NF -2)** 15) The 2, 4 and 8 times-tables **(NF -2)** 16) Mini-assessment (end of unit assessment)	Revisit concepts children struggled with as well as act as a buffer for any units that overran
Vocabulary (Year group specific)	3-digit number Column addition Column subtraction Estimate Exchange Complements Operations	Mathematical statements Missing number problems Correspondence problems Derived facts		Mathematical statements Missing number problems Correspondence problems Derived facts	Mathematical statements Missing number problems Correspondence problems Derived facts	Mathematical statements Missing number problems Correspondence problems Derived facts	
Previous years Vocabulary	Facts 2-digit number Commutative Inverse	Commutative Repeated addition Multiplication tables Odd numbers Even numbers		Commutative Repeated addition Multiplication tables Odd numbers Even numbers	Commutative Repeated addition Multiplication tables Odd numbers Even numbers	Commutative Repeated addition Multiplication tables Odd numbers Even numbers	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	**Number: Multiplication and division B**	**Number: Multiplication and division B**	**Number: Multiplication and division B**	**Measurement: Length and Perimeter**	**Measurement: Length and Perimeter**	**Measurement: Length and Perimeter**
Lesson objectives (Small steps)	1) Multiples of 10 **(MD-1)** 2) Related calculations **(MD-1)** 3) Reasoning about multiplication **(MD-1)** 4) Multiply a 2-digit number by a 1 digit number- no exchange **(MD-1)**	5) Multiply a 2-digit number by 1 digit number – with exchange **(MD-1)** 6) Link multiplication and division **(MD-1)** 7) Divide a 2-digit number by a 1-digit number – no exchange **(MD-1)** 8) Divide a 2-digit number by a 1-digit number – flexible partitioning **(MD-1)**	9) Divide a 2-digit number by a 1-digit number – with remainders **(MD-1)** 10) Scaling **(NF-3) (MD-1)** 11) How many ways? **(MD-1)** 12) Mini assessment (end of unit assessment)	1) Measure in metres and centimetres 2) Measure in millimetres 3) Measure in centimetres and millimetres 4) Metres, centimetres and millimetres	5) Equivalent lengths (metres and centimetres) **(NPV-2)** 6) Equivalent lengths (centimetres and millimetres) **(NPV-2)** 7) Compare lengths **(NPV-3)** 8) Add lengths **(AS-2)**	9) Subtract lengths **(AS-2)** 10) What is perimeter? **(AS-2)** 10) Measure perimeter **(AS-2)** 11) Calculate perimeter **(AS-2)** 12) Mini assessment (end of unit assessment)
Vocabulary (Year group specific)	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange Remainders	Millimetre mm Equivalent	Millimetre mm Equivalent	Millimetre mm Equivalent Perimeter
Previous years Vocabulary	Commutative Repeated addition Multiplication tables Odd numbers Even numbers Derived facts	Commutative Repeated addition Multiplication tables Odd numbers Even numbers Derived facts	Commutative Repeated addition Multiplication tables Odd numbers Even numbers Derived facts	Standard units Estimate Measure Compare Order Record results Centimetre cm Metre m	Standard units Estimate Measure Compare Order Record results Centimetre cm Metre m	Standard units Estimate Measure Compare Order Record results Centimetre cm Metre m

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	**Fractions A**	**Fractions A**	**Fractions A**	**Measurement: Mass and capacity**	**Measurement: Mass and capacity**	**Measurement: Mass and capacity**
Lesson objectives (Small steps)	1) Understand the denominators of unit fractions **(F-1)** 2) Compare and order unit fractions **(F-3)** 3) Understand the numerator of non-unit fractions **(F-1)** 4) Understand the whole **(F-1)**	5) Compare and order non-unit fractions **(F-3)** 6) Fractions and scales **(F-3)** 7) Fractions on a number line **(F-3)**	8) Count in fractions on a number line **(F-3)** 9) Equivalent fractions on a number line **(F-1)** 10) Equivalent fractions as bar models **(F-1)** 11) Mini assessment (end of unit assessment)	1) Use scales 2) Measure mass in grams 3) Measure mass in kilograms and grams 4) Equivalent masses (kilograms and grams)	5) Compare mass 6) Add and subtract mass 7) Measure capacity and volume in millilitres 8) Measure capacity and volume in litres and millilitres	9) Equivalent capacities and volumes (litres and millilitres) 10) Compare capacity and volume 11) Add and subtract capacity and volume 12) Mini assessment (end of unit assessment)
Vocabulary (Year group specific)	Tenths	Tenths	Equivalent fractions Tenths	Consolidate previous years	Consolidate previous years	Consolidate previous years
Previous years Vocabulary	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominator One whole	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominator One whole	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominator One whole	Kilogram kg Gram g Millilitres ml Litres l Quarter full Three-quarter full Scales Temperature Celsius	Kilogram kg Gram g Millilitres ml Litres l Quarter full Three-quarter full Scales Temperature Celsius	Kilogram kg Gram g Millilitres ml Litres l Quarter full Three-quarter full Scales Temperature Celsius

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	**Fractions B**	**Fractions B**	**Money**	**Money**	**Time**	**Time**
Lesson objectives (Small steps)	1) Add fractions **(F-4)** 2) Subtract fractions **(F-4)** 3) Partition the whole	4) Unit fractions of a set of objects 5) Non-unit fractions of a set of objects 6) Reasoning with fractions of an amount 7) Mini-assessment (end of unit assessment)	1) Pounds and pence 2) Convert pounds and pence **(NPV-2)** 3) Add money **(AS-2)**	4) Subtract Money **(AS-2)** 5) Find change **(AS-2)** 6) Mini-assessment (end of unit assessment)	1) Roman numerals to 12 2) Tell the time to 5 minutes 3) Tell the time to the minute 4) Read time on a digital clock	5) Use AM and PM 6) Years, months and days 7) Days and hours 8) Hours and minutes – use start and end times
Vocabulary (Year group specific)	Equivalent fractions Tenths	Equivalent fractions Tenths	Consolidate previous years	Consolidate previous years	Analogue clock Digital Roman numerals Noon Midnight	a.m./p.m. 12-hour clock 24-hour clock Leap year
Previous years Vocabulary	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominators One whole	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominators One whole	Value Change Pounds Pence	Value Change Pounds Pence	Intervals of time Quarter past/to Duration	Intervals of time Quarter past/to Duration

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Time**	**Shape**	**Shape**	**Statistics**	**Statistics**	**Consolidation**	
Lesson objectives (Small steps)	9) Hours and minutes – use durations 10) Minutes and seconds 11) Units of time 12) Solve problems with time 13) Mini-assessment (end of unit assessment)	1) Turns and angles **(G-1)** 2) Right angles **(G-1)** 3) Compare angles **(G-1)** 4) Measure and draw accurately **(G-2)** 5) Horizontal and vertical **(G-2)**	6) Parallel and perpendicular **(G-2)** 7) Recognise and describe 2D shapes **(G-2)** 8) Draw polygons 9) Recognise and describe 3D shapes **(G-2)** 10) Make 3D shapes **(G-2)** Mini-assessment (end of unit assessment)	1) Interpret pictograms 2) Draw pictograms 3) Interpret bar charts	4) Draw bar charts 5) Collect and represent data 6) Two-way tables 7) Mini assessment (end of unit assessment)	These weeks to act as buffer for any units that needed to be extended due to AFL. This is also to be used as a reflection of assessment week to address any gaps in knowledge children have within the current years' curriculum and to revisit and consolidate learning from the year. Once these are devised they can be added to the overview These weeks can also be used to extend the shape unit as it is 10 small steps and may run over.	
Vocabulary (Year group specific)	Analogue clock Digital Roman numerals Noon Midnight Leap year a.m./p.m. 12-hour clock 24-hour clock	Orientations Angles Turn Right angles Right angle triangle Half turn Three quarters of a turn Greater than right angle Less than right angle Horizontal lines Vertical lines Acute angles Obtuse Angles Line of symmetry	Perpendicular lines Parallel lines Orientations Angles Turn Right angles Right angle triangle Half turn Three quarters of a turn Greater than right angle Less than right angle Horizontal lines Vertical lines Polygon	Bar chart	Bar chart Two-way tables Data		
Previous years Vocabulary	Intervals of time Quarter past/to Duration Minutes Seconds	Edges Vertices Faces Sides	Edges Vertices Faces Sides	Table Pictograms Tally chart Block diagram Simple table Category Sorting Totalling Comparing Horizontal Vertical	Table Pictograms Tally chart Block diagram Simple table Category Sorting Totalling Comparing Horizontal Vertical		