Year 2 Maths Long Term Overview Scheme 3.0

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. Due to differing term lengths, these overviews do not directly match those on White Rose. For instance, some units are started earlier in the term or the term before, but they all correlate with the schemes of learning.

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. It is essential that teachers refer to previous year's vocabulary especially if children are not secure. If children are still struggling to define certain pieces of vocabulary, teachers should be encouraged to reintroduce them. Whole school vocabulary progression documents are within the Maths area on ReachIn and this language is also present on the accompanying knowledge organisers.

Consolidation/revisiting

The consolidation row has been removed from the most recent overviews as we suggest that the White Rose 'Flashback 4s' are used to revisit and consolidate learning as they reduce workload for teachers and comprehensively revisit taught content. If you chose not to use these, teachers should be encouraged to spend half the week looking at the previous year's small steps before teaching a unit and revisit them briefly. For the other half, they'd be encouraged to revisit learning they've done during the current year.

Also, the new White Rose schemes have removed the explicit recap sessions, however the beginning of the units include steps from the previous year to ensure children have the required knowledge to access new learning.

Assessment/Consolidation Weeks

The end of unit assessments have been left in, these can be taken from the previous years' resources if necessary as they will broadly match the topic being taught. Finally, within the plans there are also assessment/consolidation weeks which have been put in to revisit topics children struggled with or as buffers for if and when units overrun to accommodate assessments, trips, productions etc. These documents are also fully editable so topics or assessment weeks can be moved around or lengthened if necessary and to accommodate different term lengths. The term lengths are kept as seven weeks for the two autumn half terms and summer 2 and six for the rest. However, they can be adapted to meet differing term lengths.

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: Place Value**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Addition and subtraction**
Lesson objectives (Small steps)	1) Numbers to 20 **(NPV-1)** 2)Count objects to 100 by making 10s **(NPV-1)** 3) Recognise tens and ones **(NPV-1)** 4) Use a place value chart **(NPV-1)**	5) Partition numbers to 100 **(NPV-1)** 6) Write numbers to 100 in words **(NPV-1)** 7) Flexibly partition numbers to 100 **(NPV-1)** 8) Write numbers to 100 in expanded form **(NPV-1)**	9) 10s on the number line to 100 **(NPV-1)** 10) 10s and 1s on the number line to 100 **(NPV-1)** 11) Estimate numbers on a number line **(NPV-2)** 12) Compare objects **(NPV-2)** 13) Compare numbers **(NPV-2)**	14) Order objects and numbers **(NPV-2)** 15) Count in 2s, 5s and 10s **(NPV-2)** (May want to do this over 2 lessons) 16) Count in 3s **(NPV-2)** 17) Mini-assessment (end of unit assessment)	1) Bonds to 10 **(NF-1)** 2) Fact families – addition and subtraction bonds within 20 **(NF-1)** 3) Related facts **(NF-1, AS-3)** 4) Bonds to 100 (tens) **(AS-4)**	5) Add and subtract 1s **(AS-3)** 6) Add by making 10 **(AS-1)** 7) Add three 1-digit numbers **(AS-3)** 8) Add to the next 10 **(AS-1)** 9) Add across 10 **(AS-1)**	10) Subtract across 10 **(AS-1)** 11) Subtract from a 10 **(AS-3)** 12) Subtract a 1-digit number from a 2-digit number (across a 10) **(AS-3)** 13) 10 more, 10 less **(NPV-2) (AS-3)** 14)Add and subtract 10s **(AS-3)**
Vocabulary (Year group specific)	Place value Digit Two-digit (Revisit Y1 vocab)	Partition Place value Digit Two-digit (Revisit Y1 vocab)	Place value Digit Two-digit Estimate (Revisit Y1 vocab)	Count in steps Place value Digit Two digit Estimate (Revisit Y1 vocab)	2-digit number (can extend to 3 digit) Commutative Sum Inverse	2-digit number (can extend to 3 digit) Commutative Sum	2-digit number (can extend to 3 digit) Commutative Sum
Previous years Vocabulary	Sort Represent Order/ordinal Compare Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Sort Represent Order/ordinal Compare Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Sort Represent Order/ordinal Compare Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Sort Represent Order/ordinal Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add Difference	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add Difference	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add Difference

Autumn 2	**Week 1**	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**	**Week 7**
Units	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Assessment week**	**Geometry: Shape**	**Geometry: Shape**	**Geometry: Shape**	**Consolidation week**
Lesson objectives (Small steps)	15) Add two 2-digit numbers (not across a 10) **(AS-4)** 16) Add two 2-digit numbers (across a 10) **(AS-4)** 17) Subtract two 2-digit numbers (not across a 10) **(AS-4)** 18) Subtract two 2-digit numbers (across a 10) **(AS-4)**	19) Mixed addition and subtraction **(AS-4)** 20) Compare number sentences **(NF-1)** 21) Missing number problems 22) Mini- Assessment (end of unit assessment)	This can also be used as a buffer week for addition and subtractions should you use to spend additional time on any of the steps (some weeks have 5 small steps so they could be moved into this week)	1)Recognise 2D and 3D shapes **(G-1)** 2)Count sides on a 2D shape **(G-1)** 3)Count vertices in 2-D shapes **(G-1)** 4) Draw 2-D shapes **(G-1)**	5) Lines of symmetry on shapes **(G-1)** 6) Use lines of Symmetry to complete shapes **(G-1)** 7)Sort 2-D shapes **(G-1)** 8)Count faces on 3-D shapes **(G-1)**	9)Count edges on a 3-D shapes **(G-1)** 10)Count vertices in a 3-D shape **(G-1)** 11)Sort 3-D shapes **(G-1)** 12)Make patterns with 2-D and 3-D shapes **(G-1)** 13) 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)	2-digit number (can extend to 3 digit) Commutative Sum Difference	2-digit number (can extend to 3 digit) Commutative Sum Difference		Sides Vertices Vertex Pentagon Hexagon	Symmetry Line of symmetry Faces Sides Vertices Vertex Pentagon Hexagon	Edges Symmetry Line of symmetry Faces Sides Vertices Vertex Pentagon Hexagon	
Previous years Vocabulary	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add		2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Pyramids Spheres Cylinder Pyramid Properties	2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Pyramids Spheres Cylinder Pyramid Properties	2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Pyramids Spheres Cylinder Pyramid Properties	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	**Measurement: Money**	**Measurement: Money**	**Number: Multiplication and division**	**Number: Multiplication and division**	**Number: Multiplication and division**	**Number: Multiplication and division**
Lesson objectives (Small steps)	1) Count money – pence 2) Count money – pounds (notes and coins) 3) Count money – pounds and pence 4) Choose notes and coins 5) Make the same amount	6) Compare amounts of money **(NPV-2)** 7) Calculate with money **(AS-1/2/3/4)** 8) Make a pound **(AS-1/2/3/4)** 9) Find change **(AS-1/2/3/4)** 10) Two-step problems **(AS-1/2/3/4)**	11) **Money** mini-assessment (end of unit assessment) 1) Recognise equal groups **(MD-1)** 2) Make equal groups **(MD-1)** 3) Add equal groups **(MD-1)**	4) Introduce the multiplication symbol **(MD-2)** 5) Multiplication sentences **(MD-2)** 6) Use arrays **(MD-2)** 7) Make equal groups – grouping **(MD-1)**	8) Make equal groups – sharing **(MD-1)** 9) The 2 times-table **(MD-1)** 10) Divide by 2 **(MD-2)** 11) Doubling and halving	12) Odd and even numbers **(MD-1)** 13) The 10 times-table **(MD-1)** 14) Divide by 10 **(MD-2)**
Vocabulary (Year group specific)	Value	Value Change	Consolidate Y1 language	Consolidate Y1 language	Multiplication tables Consolidate Y1 language	Multiplication tables Consolidate Y1 language Odd numbers Even numbers
Previous years Vocabulary	Money Coins Notes Pounds Pence	Money Coins Notes Pounds Pence	Multiplication Division Arrays Grouping Sharing Equal Unequal Total	Multiplication Division Arrays Grouping Sharing Equal Unequal Total	Multiplication Division Arrays Grouping Sharing Equal Unequal Total Doubling Halving	Multiplication Division Arrays Grouping Sharing Equal Unequal Total

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	**Number: Multiplication and division**	**Measurement: Length and Height**	**Measurement: Length and Height**	**Measurement: Mass, capacity and temperature**	**Measurement: Mass, capacity and temperature**	**Measurement: Mass, capacity and temperature**
Lesson objectives (Small steps)	15) The 5 times-table **(MD-1)** 16) Divide by 5 **(MD-2)** 17) The 5 and 10 times-table **(MD-1)** 18) Mini-assessment (end of unit assessment)	1) Measure in centimetres 2) Measure in metres 3) Compare lengths and heights	4) Order lengths and heights 5) Four operations with lengths and heights 6) Mini-assessment (end of unit assessment)	1) Compare mass 2) Measure in grams 3) Measure mass in Kgs	4) Four operations with mass 5) Compare volume and capacity 6) Measure in Millilitres	7) Litres 8) Four operations with volume and capacity 9) Temperature 10) Mini-assessment (end of unit assessment)
Vocabulary (Year group specific)	Multiplication tables Consolidate Y1 language Odd numbers Even numbers	Standard units Estimate Measure Compare Order Centimetre cm Metre m	Standard units Estimate Measure Compare Order Centimetre cm Metre m	Kilogram kg Gram g	Millilitres ml Litres l	Temperature Celsius
Previous years Vocabulary	Multiplication Division Arrays Grouping Sharing Equal Unequal Total	Measure Length	Measure Length	Mass Weight	Capacity Volume Full/empty More than Less than Half/half full	Mass Weight Capacity Volume Full/empty More than Less than Half/half full

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	**Fractions**	**Fractions**	**Fractions**	**Time**	**Time**	**Potential SATS Week**
Lesson objectives (Small steps)	1) Introduction to parts and whole 2) Equal and unequal parts 3) Recognise a half 4) Find a half 5) Recognise a quarter	6) Find a quarter 7) Recognise a third 8) Find a third 9) Find the whole 10) Unit fractions	11) Non-unit fractions 12) Recognise the equivalence of ½ and 2/4 13) Recognise three-quarters 14) Find three-quarters 15) Count in fractions up to a whole Mini-assessment (end of unit assessments	1) O'clock and half past 2) Quarter past and quarter to 3) Tell time past the hour 4) Tell time to the hour	5) Tell the time to 5 minutes 6) Minutes in an hour 7) Hours in a day 8) Mini-assessment (end of unit assessment)	
Vocabulary (Year group specific)	One whole Parts Numerator Denominator Quarter Refer to previous years vocab	Third Unit fractions Numerator Denominator One whole Quarter	Three quarters Third Unit fractions Non-unit fractions Equivalence Numerator Denominator One whole	Quarter past/to	Intervals of time Quarter past/to Duration	
Previous years Vocabulary	Half Equal parts	Half Equal parts	Half Equal parts	O'clock Half past Minute Hour Chronological order	O'clock Half past Minute Hour Chronological order	

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Statistics**	**Statistics**	**Geometry: Position and Direction**	**Geometry: Position and Direction**			
Lesson objectives (Small steps)	1) Make tally charts 2) Tables 3) Block diagrams **(NPV-2) (MD-1)** 4) Draw pictograms (1-1)	5)Interpret pictograms (1-1) 6) Draw pictograms (2,5 and 10) **(NPV-2) (MD-1)** 7) Interpret pictograms (2,5 and 10) **(NPV-2) (MD-1)** 8) Mini-assessment (end of unit assessment)	1) Language of position 2) Describe movement 3) Describe turns	4)Describing movement and turns 5) Shape patterns and turns 6) Mini-assessment (end of unit assessment)	These weeks to be a reflection of KS1 SATS and teacher assessment of children. Gaps in learning and evidence for potential moderation to be addressed and then sequence added to overview before children begin Y3. These weeks can also be used as a buffer for assessment week earlier in the year such as a mock SATS or additional consolidation weeks.		
Vocabulary (Year group specific)	Pictograms Tally chart Tables Block diagram Category Sorting Totalling Comparing Horizontal Vertical	Pictograms Tally chart Tables Block diagram Category Sorting Totalling Comparing Horizontal Vertical	Straight line Rotation Order Arrange Patterns Sequences Clockwise/anti-clockwise	Straight line Rotation Order Arrange Patterns Sequences Clockwise/anti-clockwise			
Previous years Vocabulary	N/A	N/A	Position Direction Movement Whole turn Quarter turn Half turn Three quarter turn	Position Direction Movement Whole turn Quarter turn Half turn Three quarter turn			