

FULLY ALIGNED TO THE
NEW V3.0 SCHEME!



White Rose Maths on Sumdog

Scheme of Learning



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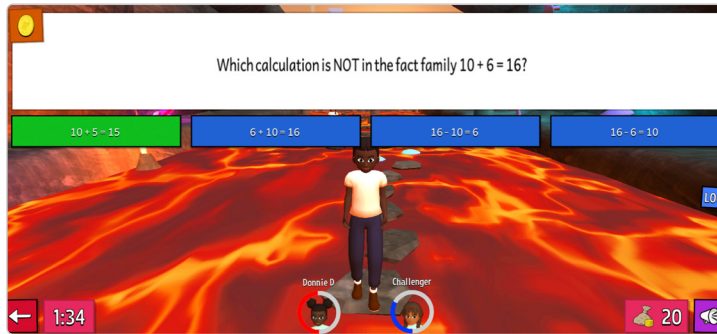
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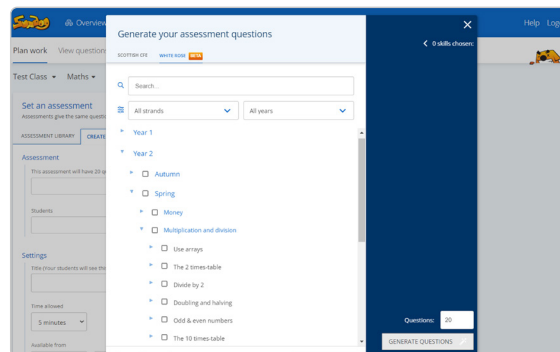
Introduction

Sumdog and White Rose Maths

Sumdog is an interactive maths and spelling platform for children aged between 5 and 14 years old that combines pupil engagement with quality question content and comprehensive curriculum alignment. Our huge bank of curriculum-aligned maths questions help children to build fluency through regular practice and teachers to diagnose, assess and identify areas for improvement. Questions can be answered in one of over 30 varied and exciting games or in a low-stakes test format, and answering questions earns children coins that can be used to upgrade their 3D avatars, houses and gardens.



Over the past year at Sumdog, we have developed, reviewed and released an entire curriculum of skills and question content aligned to the new White Rose Maths (WRM) Version 3.0 scheme, with the aim of helping you to set work on Sumdog that exactly matches your in-class teaching. These skills not only draw from our usual broad range of Sumdog questions, but also offer access to approximately 500 brand new question sets that have been designed specifically for WRM by teachers and educational consultants.



Our Scheme of Learning

This document has been created to help you set work on Sumdog to complement your use of WRM and to identify which of the WRM small steps are covered on Sumdog. To use this document, simply find the WRM small step that you are teaching, then check across for matching Sumdog skills to set work on. The WRM curriculum hierarchy is matched exactly by our skills chooser and wherever we have exactly matching skills, our skill name will match the WRM small step name.

For any small steps that we don't have directly aligned skills for (in **bold**), we've recommended suitable previous skills within the curriculum to provide opportunities for consolidation. In the final column, we've also highlighted the best times to use our ready-made WRM-aligned tests and Sumdog diagnostics, both to revise prior learning and identify areas for improvement when starting a new unit and to assess understanding at the end.

Year 1 (continued)				
Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition and subtraction (within 10)	Number bonds to 10	Number bonds to 10	
		Addition - add together	Addition - add together	
		Addition - add more	Addition - add more	
		Addition problems	Addition problems	
		Find a part	Find a part	
		Subtraction - find a part	Subtraction - find a part	
		Fact families - the eight facts	Fact families - the eight facts	
		Subtraction - take away/cross out (How many left?)	Revision - Subtraction - find a part	
		Take away (How many left?)	Take away (How many left?)	
		Subtraction on a number line	Subtraction on a number line	
Add or subtract 1 or 2	Add or subtract 1 or 2	Year 1 - Addition and subtraction (within 10)		
Shape	Shape	Recognise and name 3-D shapes	Recognise and name 3-D shapes	
		Sort 3-D shapes	Sort 3-D shapes	
		Recognise and name 2-D shapes	Recognise and name 2-D shapes	
		Sort 2-D shapes	Sort 2-D shapes	Year 1 - End of term arithmetic (Autumn)
		Patterns with 2-D and 3-D shapes	Patterns with 2-D and 3-D shapes	Year 1 - Shape

Skills in bold indicate revision skills that have been suggested where a White Rose Maths small step has no directly equivalent skill on Sumdog.

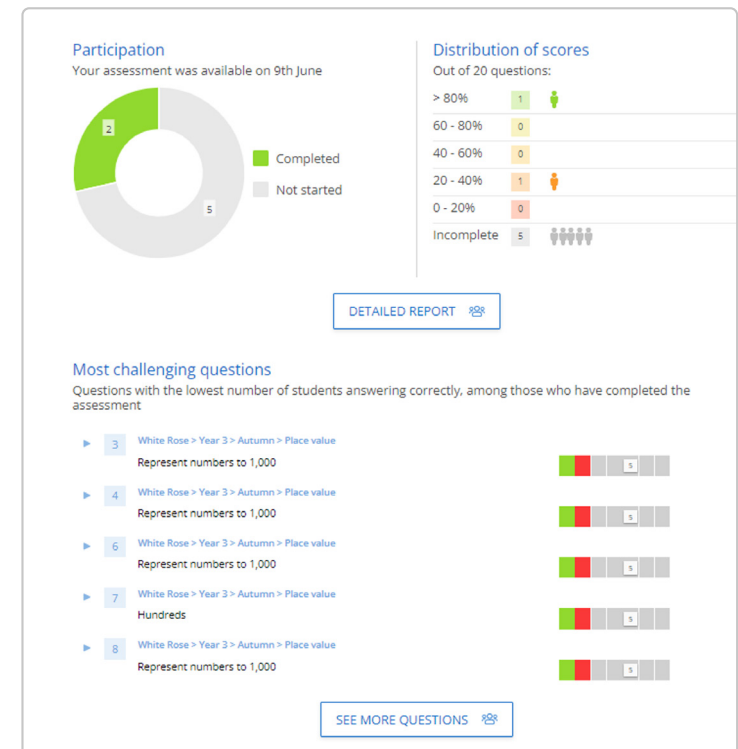
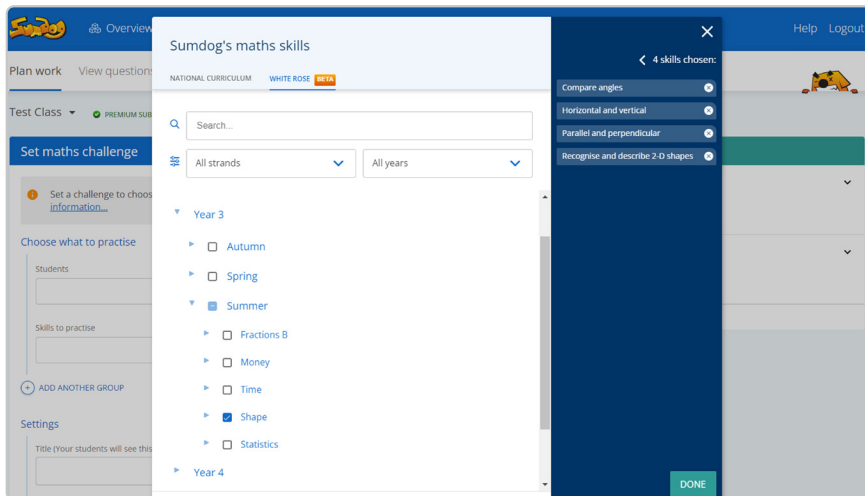
White Rose Maths on Sumdog - Scheme of Learning



Teacher A is a Year 3 teacher who is about to start teaching the 'Shape' block in the Summer term of Year 3. Using the Sumdog White Rose Maths scheme of learning document to set work on Sumdog to complement their teaching, they follow these simple steps:

1. As recommended by the document, they set the WRM-aligned test on Shape from the previous year, 'Year 2 - Shape', to prepare their pupils for upcoming learning.
2. Using Sumdog's enhanced assessment reporting, they then reveal any areas for improvement that need to be addressed before moving on to the more complex Year 3 content.
3. Once they have started teaching the first small step in the block, 'Turns and angles', they consolidate their in-class teaching by setting in-game practice on Sumdog question steps aligned to that exact small step, either in-class or as homework.

4. They then repeat step 3 for the first 3 small steps in the block - using White Rose Maths' teaching resources to introduce new learning, before using Sumdog challenges for practice and consolidation.
5. As the 4th small step in the block, 'Measure and draw accurately', is almost entirely practical in nature, there is no directly aligning skill on Sumdog. As recommended by this document however, Teacher A uses this time to set a Sumdog challenge covering the previous 3 small steps - providing a valuable opportunity for additional revision as in-class teaching moves swiftly on to the next small step.
6. Finally, at the end of the block, they use the corresponding Sumdog test, 'Year 3 - Shape', to assess learning across the block in a low-stakes, familiar environment. Once again, Sumdog's assessment report enables them to easily identify any remaining gaps in understanding so they can plan intervention as required.





Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Place value (within 10)	Sort objects	N/A	Year 1 Sumdog Diagnostic
		Count objects	Count objects	
		Count objects from a larger group	Count objects from a larger group	
		Represent objects	Represent objects	
		Recognise numbers as words	Recognise numbers as words	
		Count on from any number	Count on from any number	
		1 more	1 more	
		Count backwards within 10	Count backwards within 10	
		1 less	1 less	
		Compare groups by matching	Revision - Count objects from a larger group	
		Fewer, more, same	Fewer, more, same	
		Less than, greater than, equal to	Less than, greater than, equal to	
		Compare numbers	Compare numbers	
		Order objects and numbers	Order objects and numbers	
	The number line	The number line	Year 1 - Place value (within 10)	
	Addition and subtraction (within 10)	Introduce parts and wholes	Revision - Place value (within 10)	
		Part whole model	Part whole model	
		Write number sentences	Write number sentences	
		Fact families - addition facts	Fact families - addition facts	
Number bonds within 10		Number bonds within 10		
Systematic number bonds within 10		Systematic number bonds within 10		

Skills in **bold** indicate revision skills that have been suggested where a White Rose Maths small step has no directly equivalent skill on Sumdog.



Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition and subtraction (within 10)	Number bonds to 10	Number bonds to 10	
		Addition - add together	Addition - add together	
		Addition - add more	Addition - add more	
		Addition problems	Addition problems	
		Find a part	Find a part	
		Subtraction - find a part	Subtraction - find a part	
		Fact families - the eight facts	Fact families - the eight facts	
		Subtraction - take away/cross out (How many left?)	Revision - Subtraction - find a part	
		Take away (How many left?)	Take away (How many left?)	
		Subtraction on a number line	Subtraction on a number line	
	Add or subtract 1 or 2	Add or subtract 1 or 2	Year 1 - Addition and subtraction (within 10)	
	Shape	Recognise and name 3-D shapes	Recognise and name 3-D shapes	
		Sort 3-D shapes	Sort 3-D shapes	
		Recognise and name 2-D shapes	Recognise and name 2-D shapes	
		Sort 2-D shapes	Sort 2-D shapes	
Patterns with 2-D and 3-D shapes		Patterns with 2-D and 3-D shapes	Year 1 - Shape	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Place value (within 20)	Count within 20	Count within 20	Year 1 Sumdog Diagnostic
		Understand 10	Revision - Count within 20	Year 1 - Place value (within 10)
		Understand 11, 12 and 13		
		Understand 14, 15 and 16		
		Understand 17, 18 and 19		
		Understand 20		
		Tens and ones	Tens and ones	
		1 more and 1 less	1 more and 1 less	
		The number line to 20	Revision - 1 more and 1 less	
		Use a number line to 20	Use a number line to 20	
		Estimate on a number line to 20	Estimate on a number line to 20	
		Compare numbers to 20	Compare numbers to 20	
		Order numbers to 20	Order numbers to 20	Year 1 - Place value (within 20)
	Addition and subtraction (within 20)	Add by counting on within 20	Add by counting on within 20	Year 1 - Addition and subtraction (within 10)
		Add ones using number bonds	Add ones using number bonds	
		Find and make number bonds to 20	Find and make number bonds to 20	
		Doubles	Revision - Add by counting on within 20, Add ones using number bonds, Find and make number bonds to 20	
		Near doubles		
		Subtract ones using number bonds		
		Subtraction - counting back	Subtraction - counting back	
Subtraction - finding the difference	Subtraction - finding the difference			

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity	
Spring	Addition and subtraction (within 20)	Related facts	Related facts		
		Missing number problems	Missing number problems	Year 1 - Addition and subtraction (within 20)	
	Place value (within 50)	Count from 20 to 50	Count from 20 to 50	Revision - Count from 20 to 50 Revision - Use a number line to 20, Estimate on a number line to 20	Year 1 - Place value (within 20)
		20, 30, 40 and 50			
		Count by making groups of tens	Count by making groups of tens		
		Groups of tens and ones	Groups of tens and ones		
		Partition into tens and ones	Partition into tens and ones		
		The number line to 50			
		Estimate on a number line to 50			
		1 more, 1 less	1 more, 1 less	Year 1 - Place value (within 50)	
	Length and height	Compare lengths and heights	Compare lengths and heights		Year 1 - Length and height
		Measure length using objects	Measure length using objects		
		Measure length in centimetres	Measure length in centimetres		
	Mass and volume	Heavier and lighter	Heavier and lighter	Revision - Heavier and lighter Revision - Fully and empty, Compare volume	Year 1 - End of term arithmetic (Spring)
		Measure mass			
		Compare mass			
		Full and empty	Full and empty		
		Compare volume	Compare volume		
		Measure capacity			
		Compare capacity			

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity	
Summer	Multiplication and division	Count in 2s	Revision - Add and subtract 1 or 2	Year 1 Sumdog Diagnostic	
		Count in 10s	Count in 10s		
		Count in 5s	Revision - Count in 10s		
		Recognise equal groups			
		Add equal groups	Add equal groups		
		Make arrays	Make arrays		
		Make doubles	Make doubles		
		Make equal groups - grouping	Revision - Add equal groups, Make arrays, Make doubles		
		Make equal groups - sharing			
				Year 1 - Multiplication and division	
	Fractions	Recognise a half of an object or a shape	Recognise a half of an object or a shape	Revision - Recognise a half of an object or a shape	
		Find a half of an object or a shape			
		Recognise a half of a quantity			
		Find a half of a quantity	Find a half of a quantity		
		Recognise a quarter of an object or a shape	Recognise a quarter of an object or a shape		
		Find a quarter of an object or a shape	Revision - Recognise a quarter of an object or a shape		
		Recognise a quarter of a quantity			
		Find a quarter of a quantity			
				Year 1 - Fractions	
	Position and direction	Describe turns	Revision - 1 more, 1 less		
		Describe position - left and right	Describe position - left and right		
Describe position - forwards and backwards		Revision - Describe position - left and right			

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity	
Summer	Position and direction	Describe position – above and below	Revision – Related facts		
		Ordinal numbers	Ordinal numbers	Year 1 – Position and direction	
	Place value (within 100)	Count from 50 to 100	Count from 50 to 100		Year 1 – Place value (within 50)
		Tens to 100	Tens to 100		
		Partition into tens and ones	Partition into tens and ones		
		The number line to 100	Revision – Count from 50 to 100		
		1 more, 1 less	1 more, 1 less		
		Compare numbers with the same number of tens	Revision – Partition into tens and ones		
		Compare any two numbers	Compare any two numbers	Year 1 – Place value (within 100)	
	Money	Unitising	Revision – Compare any two numbers		Year 1 – Money
		Recognise coins	Recognise coins		
		Recognise notes	Recognise notes		
		Count in coins	Count in coins		
	Time	Before and after	Before and after		Year 1 – End of term arithmetic (Summer)
		Days of the week	Days of the week		
		Months of the year	Months of the year		
		Hours, minutes and seconds	Hours, minutes and seconds		
		Tell the time to the hour	Tell the time to the hour		
		Tell the time to the half hour	Tell the time to the half hour	Year 1 – Time	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Place Value	Numbers to 20	Revision - Year 1 - Place Value (within 20)	Year 2 Sumdog Diagnostic
		Count objects to 100 by making 10s	Count objects to 100 by making 10s	Year 1: Summer - Place value (within 100)
		Recognise tens and ones	Recognise tens and ones	
		Use a place value chart	Revision - Recognise tens and ones	
		Partition numbers to 100	Partition numbers to 100	
		Write numbers to 100 in words	Write numbers to 100 in words	
		Flexibly partition numbers to 100	Flexibly partition numbers to 100	
		Write numbers to 100 in expanded form	Write numbers to 100 in expanded form	
		10s on the number line to 100	Revision - Year 1 - Place Value (within 20)	
		10s and 1s on the number line to 100	10s and 1s on the number line to 100	
		Estimate numbers on a number line	Revision - 10s and 1s on a number line	
		Compare objects	Compare objects	
		Compare numbers	Compare numbers	
		Order objects and numbers	Order objects and numbers	
		Count in 2s, 5s and 10s	Count in 2s, 5s and 10s	
		Count in 3s	Count in 3s	Year 2 - Place value
	Addition and subtraction	Bonds to 10	Revision - Year 1 - Addition and subtraction (within 20)	Year 1 - Addition and subtraction (within 20)
		Fact families - addition and subtraction bonds within 20	Fact families - addition and subtraction bonds within 20	
		Related facts	Related facts	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition and subtraction	Bonds to 100 (tens)	Bonds to 100 (tens)	
		Add and subtract 1s	Add and subtract 1s	
		Add by making 10	Add by making 10	
		Add three 1-digit numbers	Add three 1-digit numbers	
		Add to the next 10	Revision - Add by making 10	
		Add across a 10	Add across a 10	
		Subtract across 10	Subtract across 10	
		Subtract from a 10	Subtract from a 10	
		Subtract a 1-digit number from a 2-digit number (across a 10)	Subtract a 1-digit number from a 2-digit number (across a 10)	
		10 more and 10 less	10 more and 10 less	
		Add and subtract 10s - addition	Add and subtract 10s - addition	
		Add and subtract 10s - subtraction	Add and subtract 10s - subtraction	
		Add two 2-digit numbers (not across a 10)	Add two 2-digit numbers (not across a 10)	
		Add two 2-digit numbers (across a 10)	Add two 2-digit numbers (across a 10)	
		Subtract two 2-digit numbers (not across a 10)	Subtract two 2-digit numbers (not across a 10)	
Subtract two 2-digit numbers (across a 10)	Subtract two 2-digit numbers (across a 10)			
Mixed addition and subtraction	Revision - Subtract two 2-digit numbers (across a 10) & Add two 2-digit numbers (across a 10)			

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition and subtraction	Compare number sentences	Compare number sentences	
		Missing number problems	Missing number problems	Year 2 - Addition and subtraction
	Shape	Recognise 2-D and 3-D shapes	Recognise 2-D and 3-D shapes	Year 1 - Shape
		Count sides on 2-D shapes	Count sides on 2-D shapes	
		Count vertices on 2-D shapes	Count vertices on 2-D shapes	
		Draw 2-D shapes	Revision - Recognise 2-D and 3-D shapes	
		Lines of symmetry on shapes	Lines of symmetry on shapes	
		Use lines of symmetry to complete shapes	Revision - Lines of symmetry on shapes	
		Sort 2-D shapes	Sort 2-D shapes	
		Count faces on 3-D shapes	Count faces on 3-D shapes	
		Count edges on 3-D shapes	Count edges on 3-D shapes	
		Count vertices on 3-D shapes	Count vertices on 3-D shapes	
		Sort 3-D shapes	Sort 3-D shapes	Year 2 - End of term arithmetic (Autumn)
Make patterns with 2-D and 3-D shapes	Make patterns with 2-D and 3-D shapes	Year 2 - Shape		
Spring	Money	Count money - pence	Count money - pence	Year 2 Sumdog Diagnostic
		Count money - pounds (notes and coins)	Count money - pounds (notes and coins)	Year 1 - Money
		Count money - pounds and pence	Count money - pounds and pence	
		Choose notes and coins	Choose notes and coins	
		Make the same amount	Make the same amount	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Money	Compare amounts of money	Compare amounts of money	
		Calculate with money	Calculate with money	
		Make a pound	Revision - Calculate with money	
		Find change	Find change	
		Two-step problems	Two-step problems	
	Multiplication and division	Recognise equal groups	Recognise equal groups	Year 1 - Multiplication and division
		Make equal groups	Make equal groups	
		Add equal groups	Add equal groups	
		Introduce the multiplication symbol	Introduce the multiplication symbol	
		Multiplication sentences	Multiplication sentences	
		Use arrays	Use arrays	
		Make equal groups - sharing	Revision - Use arrays	
		Make equal groups - grouping		
		The 2 times-table	The 2 times-table	
		Divide by 2	Divide by 2	
		Doubling and halving	Doubling and halving	
		Odd & even numbers	Odd & even numbers	
		The 10 times-table	The 10 times-table	
		Divide by 10	Divide by 10	
The 5 times-table	The 5 times-table			
Divide by 5	Divide by 5			

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity	
Spring	Multiplication and division	The 5 and 10 times-tables	Revision - The 5 times-table and The 10 times-table	Year 2 - Multiplication and division	
	Length and height	Measure in centimetres	Measure in centimetres		Year 1 - Length and height
		Measure in metres	Measure in metres		
		Compare lengths and heights	Compare lengths and heights		
		Order lengths and heights	Order lengths and heights		
		Four operations with lengths and heights	Four operations with lengths and heights		Year 2 - Length and height
	Mass, capacity and temperature	Compare mass	Compare mass		Year 1 - Mass and volume
		Measure in grams	Measure in grams		
		Measure in kilograms	Measure in kilograms		
		Four operations with mass	Revision - Compare mass		
		Compare volume and capacity	Compare volume and capacity		
		Measure in millilitres	Measure in millilitres		
		Measure in litres	Measure in litres		
		Four operations with volume and capacity	Revision - Compare volume and capacity		Year 2 - End of term arithmetic (Spring)
	Temperature	Temperature		Year 2 - Mass, capacity and temperature	
Summer	Fractions	Introduction parts and wholes	Revision - Year 1 - Fractions	Year 2 Sumdog Diagnostic	
		Equal and unequal parts	Equal and unequal parts	Year 1 - Fractions	
		Recognise a half	Recognise a half		
		Find a half	Find a half		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Fractions	Recognise a quarter	Recognise a quarter	
		Find a quarter	Find a quarter	
		Recognise a third	Recognise a third	
		Find a third	Find a third	
		Find the whole	Revision - Find a half, Find a quarter & Find a third	
		Unit fractions	Unit fractions	
		Non-unit fractions	Revision - Unit fractions	
		Recognise the equivalence of a half and two quarters		
		Recognise three quarters		
		Find three quarters	Find three quarters	
		Count in fractions up to a whole	Revision - Find three quarters	
	Time	O'clock and half past	O'clock and half past	Year 1 - Time
		Quarter past and quarter to	Quarter past and quarter to	
		Tell time past the hour	Revision - O'clock and half past & Quarter past and quarter to	
		Tell time to the hour		
		Tell the time to 5 minutes	Tell the time to 5 minutes	
		Minutes in an hour	Minutes in an hour	
		Hours in a day	Revision - Tell the time to 5 minutes	Year 2 - Time
	Statistics	Make tally charts	Make tally charts	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Statistics	Tables	Tables	
		Block diagrams	Block diagrams	
		Draw pictograms (1-1)	Revision - Make tally charts	
		Interpret pictograms (1-1)	Interpret pictograms (1-1)	
		Draw pictograms (2, 5 and 10)	Revision - Interpret pictograms (1-1)	
		Interpret pictograms (2, 5 and 10)	Interpret pictograms (2, 5 and 10)	
	Position and direction	Language of position	Revision - Year 1 - Position and Direction	
		Describe movement		
		Describe turns		
		Describe movement and turns		
	Shape patterns with turns	Shape patterns with turns	Year 2 - Position and direction	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Place value	Represent numbers to 100	Revision - Year 2 - Place Value	Year 3 Sumdog Diagnostic
		Partition numbers to 100		Year 2 - Place value
		Number line to 1,000		
		Hundreds	Hundreds	
		Represent numbers to 1,000	Represent numbers to 1,000	
		Partition numbers to 1,000	Partition numbers to 1,000	
		Flexible partitioning of numbers to 1,000	Flexible partitioning of numbers to 1,000	
		Hundreds, tens and ones	Hundreds, tens and ones	
		Find 1, 10, 100 more or less	Find 1, 10, 100 more or less	
		Number line to 1,000	Number line to 1,000	
		Estimating on a number line to 1,000	Revision - Number line to 1,000	
		Compare numbers to 1,000	Compare numbers to 1,000	
		Order numbers to 1,000	Order numbers to 1,000	
		Count in 50s	Count in 50s	Year 3 - Place value
	Addition and subtraction	Apply number bonds within 10	Revision - Year 2 - Addition and subtraction	Year 2 - Addition and subtraction
		Add and subtract 1s	Add and subtract 1s	
		Add and subtract 10s	Add and subtract 10s	
		Add and subtract 100s	Add and subtract 100s	
		Spot the pattern	Revision - Add and subtract 1s, Add and subtract 10s & Add and subtract 100s	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition and subtraction	Add 1s across a 10	Add 1s across a 10	
		Add 10s across a 100	Add 10s across a 100	
		Subtract 1s across a 10	Subtract 1s across a 10	
		Subtract 10s across a 100	Subtract 10s across a 100	
		Make connections	Make connections	
		Add two numbers (no exchange)	Add two numbers (no exchange)	
		Subtract two numbers (no exchange)	Subtract two numbers (no exchange)	
		Add two numbers (across a 10)	Add two numbers (across a 10)	
		Add two numbers (across a 100)	Add two numbers (across a 100)	
		Subtract two numbers (across a 10)	Subtract two numbers (across a 10)	
		Subtract two numbers (across a 100)	Subtract two numbers (across a 100)	
		Add 2-digit and 3-digit numbers	Add 2-digit and 3-digit numbers	
		Subtract a 2-digit number from a 3-digit number	Subtract a 2-digit number from a 3-digit number	
		Complements to 100	Complements to 100	
		Estimate answers	Estimate answers	
Inverse operations	Revision - Add 2-digit and 3-digit numbers			
Make decisions	Revision - Subtract a 2-digit number from a 3-digit number	Year 3 - Addition and subtraction		
	Multiplication and division A	Multiplication - equal groups	Revision - Year 2 - Multiplication and Division	Year 2 - Multiplication and division

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Multiplication and division A	Use arrays	Use arrays	
		Multiples of 2	Revision Year 2 - The 2-times table	
		Multiples of 5 and 10	Multiples of 5 and 10	
		Sharing and grouping	Sharing and grouping	
		Multiply by 3	Multiply by 3	
		Divide by 3	Divide by 3	
		The 3 times-table	The 3 times-table	
		Multiply by 4	Multiply by 4	
		Divide by 4	Divide by 4	
		The 4 times-table	The 4 times-table	
		Multiply by 8	Multiply by 8	
		Divide by 8	Divide by 8	
		The 8 times-table	The 8 times-table	Year 2 - End of term arithmetic (Autumn)
The 2, 4 and 8 times tables	The 2, 4 and 8 times tables	Year 3 - Multiplication and division A		
Spring	Multiplication and division B	Multiples of 10	Revision - Multiples of 5 and 10	Year 3 Sumdog Diagnostic
		Related calculations	Related calculations	
		Multiply a 2-digit number by a 1-digit number - no exchange	Multiply a 2-digit number by a 1-digit number - no exchange	
		Multiply a 2-digit number by a 1-digit number - with exchange	Multiply a 2-digit number by a 1-digit number - with exchange	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Multiplication and division B	Comparing statements	Comparing statements	
		Divide a 2-digit number by a 1-digit number - no exchange	Divide a 2-digit number by a 1-digit number - no exchange	
		Divide a 2-digit number by a 1-digit number - flexible partitioning	Revision - Divide a 2-digit number by a 1-digit number - no exchange	
		Divide a 2-digit number by a 1-digit number - with remainders		
		Scaling	Scaling	
		How many ways?	Revision - Scaling	
	Length and perimeter	Measure in metres and centimetres	Revision - Year 2 - Length and height	Year 2 - Length and height
		Measure in millimetres		
		Measure in centimetres and millimetres		
		Metres, centimetres and millimetres		
		Equivalent lengths (metres and centimetres)	Equivalent lengths (metres and centimetres)	
		Equivalent lengths (centimetres and millimetres)	Equivalent lengths (centimetres and millimetres)	
		Compare lengths	Compare lengths	
		Add lengths	Add lengths	
		Subtract lengths	Subtract lengths	
		What is perimeter?	Revision - Add lengths	
		Measure perimeter	Measure perimeter	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Length and perimeter	Calculate perimeter	Calculate perimeter	Year 3 - Length and perimeter
	Fractions A	Understand the denominators of unit fractions	Understand the denominators of unit fractions	Year 2 - Fractions
		Compare and order unit fractions	Compare and order unit fractions	
		Understand the numerators of non-unit fractions	Understand the numerators of non-unit fractions	
		Understand the whole	Understand the whole	
		Compare and order non-unit fractions	Compare and order non-unit fractions	
		Fractions and scales	Revision - Compare and order non-unit fractions	
		Fractions on a number line	Fractions on a number line	
		Count in fractions on a number line	Count in fractions on a number line	
		Equivalent fractions on a number line	Equivalent fractions on a number line	
		Equivalent fractions as bar models	Equivalent fractions as bar models	
	Mass and capacity	Use scales	Revision - Year 1 - Mass, capacity and temperature	Year 2 - Mass, capacity and temperature
		Measure mass in grams	Measure mass in grams	
		Measure mass in kilograms and grams	Measure mass in kilograms and grams	
		Equivalent masses (kilograms and grams)	Revision - Measure mass in kilograms and grams	
		Compare mass	Compare mass	
		Add and subtract mass	Add and subtract mass	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Mass and capacity	Measure capacity and volume in millilitres	Measure capacity and volume in millilitres	
		Measure capacity and volume in litres and millilitres	Measure capacity and volume in litres and millilitres	
		Equivalent capacities and volumes (litres and millilitres)	Equivalent capacities and volumes (litres and millilitres)	
		Compare capacity and volume	Compare capacity and volume	Year 3 - End of term arithmetic (Spring)
		Add and subtract capacity and volume	Add and subtract capacity and volume	Year 3 - Mass and capacity
Summer	Fractions B	Add fractions	Add fractions	Year 3 Sumdog Diagnostic
		Subtract fractions	Subtract fractions	Year 3 - Fractions A
		Partition the whole	Revision - Add fractions & Subtract fractions	
		Unit fractions of a set of objects	Unit fractions of a set of objects	
		Non-unit fractions of a set of objects	Non-unit fractions of a set of objects	
		Reasoning with fractions of an amount	Reasoning with fractions of an amount	Year 3 - Fractions B
	Money	Pounds and pence	Pounds and pence	Year 2 - Money
		Convert pounds and pence	Convert pounds and pence	
		Add money	Add money	
		Subtract money	Subtract money	
		Find change	Find change	Year 3 - Money
	Time	Roman numerals to 12	Roman numerals to 12	Year 2 - Time
		Tell the time to 5 minutes	Tell the time to 5 minutes	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Time	Tell the time to the minute	Tell the time to the minute	
		Read time on a digital clock	Read time on a digital clock	
		Use a.m. and p.m.	Revision - Read time on a digital clock	
		Years, months and days	Years, months and days	
		Days and hours	Revision - Years, months and days	
		Hours and minutes - use start and end times	Hours and minutes - use start and end times	
		Hours and minutes - use durations	Hours and minutes - use durations	
		Minutes and seconds	Minutes and seconds	
		Units of time	Units of time	
		Solve problems with time	Solve problems with time	
	Shape	Turns and angles	Turns and angles	Year 2 - Shape
		Right angles	Right angles	
		Compare angles	Compare angles	
		Measure and draw accurately	Revision - Turns and angles, Right angles, Compare angles	
		Horizontal and vertical	Horizontal and vertical	
		Parallel and perpendicular	Parallel and perpendicular	
		Recognise and describe 2-D shapes	Recognise and describe 2-D shapes	
		Draw polygons	Revision - Recognise and describe 2-D shapes	
		Recognise and describe 3-D shapes	Recognise and describe 3-D shapes	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Shape	Make 3-D shapes	Revision - Recognise and describe 3-D shapes	Year 3 - Shape
	Statistics	Interpret pictograms	Interpret pictograms	Year 2 - Statistics
		Draw pictograms	Revision - Interpret pictograms	
		Interpret bar charts	Interpret bar charts	
		Draw bar charts	Revision - Interpret bar charts	
		Collect and represent data	Collect and represent data	Year 3 - End of term arithmetic (Summer)
Two-way tables	Two-way tables	Year 3 - Statistics		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Place value	Represent numbers to 1,000	Revision - Year 3 - Place value	Year 4 Sumdog Diagnostic
		Partition numbers to 1,000		Year 3 - Place value
		Number line to 1,000	Number line to 1,000	
		Thousands	Thousands	
		Represent numbers to 10,000	Represent numbers to 10,000	
		Partition numbers to 10,000	Partition numbers to 10,000	
		Flexible partitioning of numbers to 10,000	Revision - Partition numbers to 10,000	
		Find 1, 10, 100, 1,000 more or less	Find 1, 10, 100, 1,000 more or less	
		Number line to 10,000	Number line to 10,000	
		Estimate on a number line to 10,000	Estimate on a number line to 10,000	
		Compare numbers to 10,000	Compare numbers to 10,000	
		Order numbers to 10,000	Order numbers to 10,000	
		Roman numerals	Roman numerals	
		Round to the nearest 10	Round to the nearest 10	
		Round to the nearest 100	Round to the nearest 100	
		Round to the nearest 1,000	Round to the nearest 1,000	
	Round to the nearest 10, 100 or 1,000	Round to the nearest 10, 100 or 1,000	Year 4 - Place value	
	Addition and subtraction	Add and subtract 1s, 10s, 100s and 1000s	Add and subtract 1s, 10s, 100s and 1000s	Year 3 - Addition and subtraction
		Add two 4-digit numbers - no exchange	Add two 4-digit numbers - no exchange	
		Add two 4-digit numbers - one exchange	Add two 4-digit numbers - one exchange	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition and subtraction	Add two 4-digit numbers - more than one exchange	Add two 4-digit numbers - more than one exchange	
		Subtract two 4-digit numbers - no exchange	Subtract two 4-digit numbers - no exchange	
		Subtract two 4-digit numbers - one exchange	Subtract two 4-digit numbers - one exchange	
		Subtract two 4-digit numbers - more than one exchange	Subtract two 4-digit numbers - more than one exchange	
		Efficient subtraction	Efficient subtraction	
		Estimate answers	Estimate answers	
		Checking strategies	Checking strategies	
	Area	What is area?	What is area?	
		Counting squares	Counting squares	
		Making shapes	Making shapes	
		Comparing area	Comparing area	
	Multiplication and division A	Multiples of 3	Revision - Year 3 - The 3 times-table	Year 3 - Multiplication and division A
		Multiply and divide by 6	Multiply and divide by 6	
		6 times-table and division facts	6 times-table and division facts	
		Multiply and divide by 9	Multiply and divide by 9	
		9 times-table and division facts	9 times-table and division facts	
		The 3, 6 and 9 times-tables	Revision - 6-times table and division facts & 9-times table and division facts	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Multiplication and division A	Multiply and divide by 7	Multiply and divide by 7	
		7 times-table and division facts	7 times-table and division facts	
		11 times-table and division facts	11 times-table and division facts	
		12 times-table and division facts	12 times-table and division facts	
		Multiply by 1 and 0	Multiply by 1 and 0	
		Divide by 1 and itself	Divide by 1 and itself	Year 4 - End of term arithmetic (Autumn)
		Multiply 3 numbers	Multiply 3 numbers	Year 4 - Multiplication and division A
Spring	Multiplication and division B	Factor pairs	Factor pairs	Year 4 Sumdog Diagnostic
		Use factor pairs	Revision - Factor pairs	Year 3 - Multiplication and division B
		Multiply by 10	Revision - Year 3 - Multiples of 5 and 10	
		Multiply by 100	Multiply by 100	
		Divide by 10	Divide by 10	
		Divide by 100	Divide by 100	
		Related facts - multiplication and division	Revision - Multiply by 100 & Divide by 100	
		Informal written methods for multiplication	Informal written methods for multiplication	
Multiply a 2-digit number by a 1-digit number	Multiply a 2-digit number by a 1-digit number			

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Multiplication and division B	Multiply a 3-digit number by a 1-digit number	Multiply a 3-digit number by a 1-digit number	
		Divide a 2-digit number by a 1-digit number (1)	Revision - Year 3 - Divide a 2-digit number by a 1-digit number - no exchange	
		Divide a 2-digit number by a 1-digit number (2)		
		Divide a 3-digit number by a 1-digit number	Divide a 3-digit number by a 1-digit number	
		Correspondence problems	Correspondence problems	
		Efficient multiplication	Efficient multiplication	
	Length and perimeter	Measure in kilometres and metres	Measure in kilometres and metres	Year 3 - Length and perimeter
		Equivalent lengths (kilometres and metres)	Equivalent lengths (kilometres and metres)	
		Perimeter on a grid	Perimeter on a grid	
		Perimeter of a rectangle	Perimeter of a rectangle	
		Perimeter of rectilinear shapes	Perimeter of rectilinear shapes	
		Find missing lengths in rectilinear shapes	Revision - Perimeter of rectilinear shapes	
		Calculate perimeter of rectilinear shapes	Calculate perimeter of rectilinear shapes	
		Perimeter of regular polygons	Revision - Calculate perimeter of rectilinear shapes	Year 4 - Length and perimeter
Fractions	Understand the whole	Understand the whole	Year 3 - Fractions B	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity	
Spring	Fractions	Count beyond 1	Count beyond 1		
		Partition a mixed number	Partition a mixed number		
		Number lines with mixed numbers	Number lines with mixed numbers		
		Compare and order mixed numbers	Compare and order mixed numbers		
		Understand improper fractions	Understand improper fractions		
		Convert mixed numbers to improper fractions	Convert mixed numbers to improper fractions		
		Convert improper fractions to mixed numbers	Convert improper fractions to mixed numbers		
		Equivalent fractions on a number line	Revision - Year 3 - Equivalent fractions on a number line		
		Equivalent fraction families	Equivalent fraction families		
		Add two or more fractions	Add two or more fractions		
		Add fractions and mixed numbers	Revision - Add two or more fractions		
		Subtract two fractions	Subtract two fractions		
		Subtract from whole amounts	Subtract from whole amounts		
	Subtract from mixed numbers	Revision - Subtract two fractions & Subtract from whole amounts	Year 4 - Fractions		
		Decimals A	Tenths as fractions	Tenths as fractions	
			Tenths as decimals	Tenths as decimals	
Tenths on a place value chart			Tenths on a place value chart		
Tenths on a number line			Tenths on a number line		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity	
Spring	Decimals A	Divide a 1-digit number by 10	Divide a 1-digit number by 10		
		Divide a 2-digit number by 10	Divide a 2-digit number by 10		
		Hundredths as fractions	Hundredths as fractions		
		Hundredths as decimals	Hundredths as decimals		
		Hundredths on a place value grid	Hundredths on a place value grid		Year 4 - End of term arithmetic (Spring)
		Divide a 1- or 2-digit number by 100	Divide a 1- or 2-digit number by 100	Year 4 - Decimals A	
Summer	Decimals B	Make a whole with tenths	Make a whole with tenths	Year 4 Sumdog Diagnostic	
		Make a whole with hundredths	Make a whole with hundredths		
		Partition decimals	Partition decimals		
		Flexibly partition decimals	Revision - Partition decimals		
		Compare decimals	Compare decimals		
		Order decimals	Order decimals		
		Round decimals to the nearest whole number	Round decimals to the nearest whole number		
		Halves and quarters as decimals	Halves and quarters as decimals		Year 4 - Decimals B
	Money	Money	Write money using decimals	Write money using decimals	Year 3 - Money
			Convert between pounds and pence	Convert between pounds and pence	
			Compare amounts with money	Compare amounts with money	
			Estimate with money	Estimate with money	
			Calculate with money	Revision - Compare amounts with money & Estimate with money	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Money	Solve problems with money		Year 4 - Money
	Time	Years, months, weeks and days	Years, months, weeks and days	Year 3 - Time
		Hours, minutes and seconds	Hours, minutes and seconds	
		Convert between analogue and digital times	Convert between analogue and digital times	
		Convert to the 24 hour clock	Convert to the 24 hour clock	
		Convert from the 24 hour clock	Convert from the 24 hour clock	Year 4 - Time
	Shape	Understand angles as turns	Revision - Year 3 - Shape	Year 3 - Shape
		Identify angles	Identify angles	
		Compare and order angles	Compare and order angles	
		Triangles	Triangles	
		Quadrilaterals	Quadrilaterals	
		Polygons	Polygons	
		Lines of symmetry	Lines of symmetry	
		Complete a symmetric figure	Complete a symmetric figure	Year 4 - Shape
	Statistics	Interpret charts	Interpret charts	Year 3 - Statistics
		Comparison, sum and difference	Comparison, sum and difference	Year 4 - Statistics
		Interpret line graphs	Interpret line graphs	
		Draw line graphs	Revision - Interpret line graphs	
	Position and direction	Describe position using coordinates	Describe position using coordinates	Year 4 - Statistics
		Plot coordinates	Plot coordinates	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Position and direction	Draw 2-D shapes on a grid	Revision - Describe position using coordinates	
		Translate on a grid	Translate on a grid	Year 4 - End of term arithmetic (Summer)
		Describe translation on a grid	Describe translation on a grid	Year 4 - Position and direction

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity	
Autumn	Place value	Roman numerals to 1,000	Roman numerals to 1,000	Year 5 Sumdog Diagnostic	
		Numbers to 10,000	Numbers to 10,000	Year 4 - Place value	
		Numbers to 100,000	Numbers to 100,000		
		Numbers to 1,000,000	Numbers to 1,000,000		
		Read and write numbers to 1,000,000	Revision - Numbers to 1,000,000		
		Powers of 10			
		10/100/1,000/10,000/100,000 more or less	10/100/1,000/10,000/100,000 more or less		
		Partition numbers to 1,000,000	Revision - 10/100/1,000/10,000/100,000 more or less		
		Number line to 1,000,000			
		Compare and order numbers to 100,000	Compare and order numbers to 100,000		
		Compare and order numbers to 1,000,000	Compare and order numbers to 1,000,000		
		Round to the nearest 10, 100 or 1,000	Round to the nearest 10, 100 or 1,000		
		Round within 100,000	Round within 100,000		
		Round within 1,000,000	Round within 1,000,000	Year 5 - Place value	
	Addition and subtraction		Mental strategies	Revision - Year 4 - Addition and subtraction	Year 4 - Addition and subtraction
			Add whole numbers with more than four digits	Add whole numbers with more than four digits	
Subtract whole numbers with more than four digits			Subtract whole numbers with more than four digits		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition and subtraction	Round to check answers	Round to check answers	
		Inverse operations (addition and subtraction)	Inverse operations (addition and subtraction)	
		Multi-step addition and subtraction problems	Multi-step addition and subtraction problems	
		Compare calculations	Compare calculations	
		Find missing numbers	Find missing numbers	
	Multiplication and division A	Multiples	Multiples	Year 4 - Multiplication and division A
		Common multiples	Revision - Multiples	
		Factors	Factors	
		Common Factors	Common Factors	
		Prime Numbers	Prime Numbers	
		Square Numbers	Square Numbers	
		Cube Numbers	Cube Numbers	
		Multiply by 10, 100 and 1,000	Multiply by 10, 100 and 1,000	
		Divide by 10, 100 and 1,000	Divide by 10, 100 and 1,000	
		Multiples of 10, 100 and 1,000	Multiples of 10, 100 and 1,000	
	Fractions A	Find fractions equivalent to a unit fraction	Revision - Year 4 - Fractions	Year 4 - Fractions
		Find fractions equivalent to a non-unit fraction	Find fractions equivalent to a non-unit fraction	
		Recognise equivalent fractions	Recognise equivalent fractions	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Fractions A	Convert improper fractions to mixed numbers	Revieion - Find fractions equivalent to a non-unit fraction & Recognise equivalent fractions	
		Convert mixed numbers to improper fractions		
		Compare fractions less than 1	Compare fractions less than 1	
		Order fractions less than 1	Order fractions less than 1	
		Compare and order fractions greater than 1	Compare and order fractions greater than 1	
		Add and subtract fractions with the same denominator	Add and subtract fractions with the same denominator	
		Add fractions within 1	Add fractions within 1	
		Add fractions with total greater than 1	Add fractions with total greater than 1	
		Add to a mixed number	Add to a mixed number	
		Add two mixed numbers	Add two mixed numbers	
		Subtract fractions	Subtract fractions	
		Subtract from a mixed number	Subtract from a mixed number	
		Subtract from a mixed number - breaking the whole	Subtract from a mixed number - breaking the whole	Year 5 - End of term arithmetic (Autumn)
Subtract two mixed numbers	Subtract two mixed numbers	Year 5 - Fractions A		
Spring	Multiplication and division B	Multiply up to a 4-digit number by a 1-digit number	Multiply up to a 4-digit number by a 1-digit number	Year 5 Sumdog Diagnostic
		Multiply a 2-digit number by a 2-digit number (area model)	Multiply a 2-digit number by a 2-digit number (area model)	Year 4 - Multiplication and division B

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Multiplication and division B	Multiply a 2-digit number by a 2-digit number	Multiply a 2-digit number by a 2-digit number	
		Multiply a 3-digit number by a 2-digit number	Multiply a 3-digit number by a 2-digit number	
		Multiply a 4-digit number by a 2-digit number	Multiply a 4-digit number by a 2-digit number	
		Solve problems with multiplication	Revision - Multiply a 4-digit number by a 2-digit number	
		Short division	Short division	
		Divide a 4-digit number by a 1-digit number	Divide a 4-digit number by a 1-digit number	
		Divide with remainders	Divide with remainders	
		Efficient division	Revision - Divide a 4-digit number by a 1-digit number & Divide with remainders	
		Solve problems with multiplication and division		
	Fractions B	Multiply a unit fraction by an integer	Multiply a unit fraction by an integer	Year 5 - Fractions A
		Multiply a non-unit fraction by an integer	Revision - Multiply a unit fraction by an integer	
		Multiply a mixed number by an integer	Multiply a mixed number by an integer	
		Calculate a fraction of a quantity	Calculate a fraction of a quantity	
		Fraction of an amount	Fraction of an amount	
		Find the whole	Find the whole	
Use fractions as operators	Use fractions as operators	Year 5 - Fractions B		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Decimals & percentages	Decimals up to 2 decimal places	Decimals up to 2 decimal places	Year 4 - Decimals B
		Equivalent fractions and decimals (tenths)	Revision - Year 5 - Tenths as fractions & Tenths as decimals	
		Equivalent fractions and decimals (hundredths)	Equivalent fractions and decimals (hundredths)	
		Equivalent fractions and decimals	Equivalent fractions and decimals	
		Thousandths as fractions	Thousandths as fractions	
		Thousandths as decimals	Thousandths as decimals	
		Thousandths on a place value chart	Thousandths on a place value chart	
		Order and compare decimals (same number of decimal places)	Order and compare decimals (same number of decimal places)	
		Order and compare any decimals with up to 3 decimal places	Order and compare any decimals with up to 3 decimal places	
		Round to the nearest whole number	Round to the nearest whole number	
		Round to 1 decimal place	Round to 1 decimal place	
		Understand percentages	Understand percentages	
		Percentages as fractions	Percentages as fractions	
		Percentages as decimals	Percentages as decimals	
	Equivalent fractions, decimals and percentages	Equivalent fractions, decimals and percentages	Year 5 - Decimals & percentages	
	Perimeter and area	Perimeter of rectangles	Revision - Year 4 - Length and perimeter	Year 4 - Area
Perimeter of rectilinear shapes				
Perimeter of polygons		Perimeter of polygons		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Perimeter and area	Area of rectangles	Area of rectangles	Year 5 - Perimeter and area
		Area of compound Shapes	Area of compound Shapes	
		Estimate area	Estimate area	
	Statistics	Draw line graphs	Revision - Year 4 - Statistics	Year 4 - Statistics
		Read and interpret line graphs	Read and interpret line graphs	Year 5 - End of term arithmetic (Spring)
		Read and interpret tables	Revision - Read and interpret line graphs	
		Two-way tables	Two-way tables	
	Timetables	Timetables	Year 5 - Statistics	
Summer	Shape	Understand and use degrees	Understand and use degrees	Year 5 Sumdog Diagnostic
		Classify angles	Revision - Year 4 - Identify angles	Year 4 - Shape
		Estimate angles	Estimate angles	Year 5 - Shape
		Measure angles up to 180	Measure angles up to 180	
		Draw lines and angles accurately	Revision - Measure angles up to 180	
		Calculate angles around a point	Calculate angles around a point	
		Calculate angles on a straight line	Calculate angles on a straight line	
		Lengths and angles in shapes	Revision - Calculate angles around a point & Calculate angles on a straight line	
		Regular and irregular polygons	Regular and irregular polygons	
	3-D shapes	3-D shapes	Year 5 - Shape	
	Position and direction	Read and plot coordinates	Revision - Year 4 - Position and direction	Year 4 - Position and direction
		Problem solving with coordinates		Year 4 - Position and direction
Translation		Translation		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Position and direction	Translation with coordinates	Translation with coordinates	Year 5 - Position and direction
		Lines of symmetry	Revision - Year 4 - Lines of symmetry	
		Reflection in horizontal and vertical lines	Reflection in horizontal and vertical lines	
	Decimals	Use known facts to add and subtract decimals within 1	Use known facts to add and subtract decimals within 1	Year 4 - Decimals B
		Complements to 1	Complements to 1	
		Add and subtract decimals across 1	Add and subtract decimals across 1	
		Add decimals with the same number of decimal places	Add decimals with the same number of decimal places	
		Subtract decimals with the same number of decimal places	Subtract decimals with the same number of decimal places	
		Add decimals with a different number of decimal places	Add decimals with a different number of decimal places	
		Subtract decimals with a different number of decimal places	Subtract decimals with a different number of decimal places	
		Efficient strategies for adding and subtracting decimals	Efficient strategies for adding and subtracting decimals	
		Decimal sequences	Decimal sequences	
		Multiplying by 10, 100 and 1,000	Multiplying by 10, 100 and 1,000	
		Dividing by 10, 100 and 1,000	Dividing by 10, 100 and 1,000	
	Multiply and divide decimals - missing values	Multiply and divide decimals - missing values	Year 5 - Decimals	
Negative numbers	Understand negative numbers	Understand negative numbers		
	Count through zero in 1s	Count through zero in 1s		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Summer	Negative numbers	Count through zero in multiples	Count through zero in multiples	Year 5 - Negative numbers
		Compare and order negative numbers	Compare and order negative numbers	
		Find the difference	Revision - Compare and order negative numbers	
	Converting units	Kilograms and kilometres	Kilograms and kilometres	Year 5 - Converting units
		Milligrams and millilitres	Milligrams and millilitres	
		Convert units of length	Convert units of length	
		Convert between metric and imperial units	Convert between metric and imperial units	
		Convert units of time	Convert units of time	
		Calculate with timetables	Calculate with timetables	
	Volume	Cubic centimetres	Cubic centimetres	Year 5 - End of term arithmetic (Summer) Year 5 - Volume
		Compare volume	Compare volume	
		Estimate volume	Revision - Compare volume	
		Estimate capacity	Estimate capacity	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Place value	Numbers to 1,000,000	Revision - Year 5 - Place value	Year 6 Sumdog Diagnostic
		Numbers to 10,000,000	Numbers to 10,000,000	Year 5 - Place value
		Read and write numbers to 10,000,000	Read and write numbers to 10,000,000	
		Powers of 10	Revision - Numbers to 10,000,000 & Read and write numbers to 10,000,000	
		Number line to 10,000,000		
		Compare and order any integers	Compare and order any integers	
		Round any integer	Round any integer	
		Negative numbers	Negative numbers	Year 6 - Place value
	Addition, subtraction, multiplication and division	Add and subtract integers	Add and subtract integers	Year 5 - Multiplication and division
		Common factors	Common factors	
		Common multiples	Common multiples	
		Rules of divisibility	Revision - Common factors & Common multiples	
		Primes to 100	Primes to 100	
		Square and cube numbers	Square and cube numbers	
		Multiply up to a 4-digit by a 2-digit number	Multiply up to a 4-digit by a 2-digit number	
		Division using factors	Division using factors	
		Introduction to long division	Introduction to long division	
		Long division with remainders	Long division with remainders	
		Solve problems with division	Solve problems with division	

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Addition, subtraction, multiplication and division	Solve multi-step problems	Revision - Solve problems with division	Year 6 - Addition, subtraction, multiplication and division
		Order of operations	Order of operations	
		Mental calculations and estimation	Mental calculations and estimation	
		Reason from known facts	Reason from known facts	
	Fractions A	Equivalent fractions and simplifying	Equivalent fractions and simplifying	Year 5 - Fractions A
		Equivalent fractions on a number line	Equivalent fractions on a number line	
		Compare and order (denominator)	Compare and order (denominator)	
		Compare and order (numerator)	Compare and order (numerator)	
		Add and subtract simple fractions	Add and subtract simple fractions	
		Add and subtract any two fractions	Add and subtract any two fractions	
		Add mixed numbers	Add mixed numbers	
		Subtract mixed numbers	Subtract mixed numbers	
	Multi-step problems	Multi-step problems	Year 6 - Fractions A	
	Fractions B	Multiply fractions by integers	Multiply fractions by integers	Year 5 - Fractions B
		Multiply fractions by fractions	Multiply fractions by fractions	
		Divide a fraction by an integer	Divide a fraction by an integer	
		Divide any fraction by an integer	Divide any fraction by an integer	
		Mixed questions with fractions	Mixed questions with fractions	
		Fraction of an amount	Fraction of an amount	
		Fraction of an amount - find the whole	Fraction of an amount - find the whole	Year 6 - Fractions B

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Autumn	Converting units	Metric measures	Metric measures	Year 5 - Converting units
		Convert metric measures	Convert metric measures	
		Calculate with metric measures	Calculate with metric measures	
		Miles and kilometres	Miles and kilometres	Year 6 - End of term arithmetic (Autumn)
		Imperial measures	Imperial measures	Year 6 - Converting units
Spring	Ratio	Add or multiply?	Add or multiply?	Year 6 Sumdog Diagnostic
		Use ratio language	Use ratio language	
		Introduction to the ratio symbol	Introduction to the ratio symbol	
		Ratio and fractions	Ratio and fractions	
		Scale drawing	Revision - Introduction to the ratio symbol	
		Use scale factors	Use scale factors	
		Similar shapes	Revision - Use scale factors	
		Ratio problems	Ratio problems	Year 6 - Ratio
	Algebra	1-step function machines	1-step function machines	
		2-step function machines	2-step function machines	
		Form expressions	Form expressions	
		Substitution	Substitution	
		Formulae	Formulae	
Form equations		Form equations		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Algebra	Solve 1-step equations	Solve 1-step equations	Year 6 - Algebra
		Solve 2-step equations	Solve 2-step equations	
		Find pairs of values	Find pairs of values	
		Solve problems with two unknowns	Solve problems with two unknowns	
	Decimals	Place value within 1	Place value within 1	Year 5 - Decimals
		Place value - integers and decimals	Revision - Place value within 1	
		Round decimals	Round decimals	
		Add and subtract decimals	Revision - Year 5 - Add decimals with a different number of decimal places & Subtract decimals with a different number of decimal places	
		Multiply by 10, 100 and 1,000	Multiply by 10, 100 and 1,000	
		Divide by 10, 100 and 1,000	Divide by 10, 100 and 1,000	
		Multiply decimals by integers	Multiply decimals by integers	
		Divide decimals by integers	Divide decimals by integers	
		Multiply and divide decimals in context	Multiply and divide decimals in context	Year 6 - Decimals
	Fractions, decimals and percentages	Decimal and fraction equivalents	Decimal and fraction equivalents	Year 5 - Decimals & percentages
		Fractions as division	Fractions as division	
		Understand percentages	Revision - Year 5 - Understand percentages	
Fractions to percentages		Fractions to percentages		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Fractions, decimals and percentages	Equivalent fractions, decimals and percentages	Equivalent fractions, decimals and percentages	
		Order fractions, decimals and percentages	Order fractions, decimals and percentages	
		Percentage of an amount - one step	Percentage of an amount - one step	
		Percentage of an amount - multi-step	Percentage of an amount - multi-step	
		Percentages - missing values	Percentages - missing values	
	Area, perimeter and volume	Shapes - same area	Shapes - same area	Year 5 - Volume
		Area and perimeter	Area and perimeter	
		Area of a triangle - counting squares	Area of a triangle - counting squares	
		Area of a right-angled triangle	Area of a right-angled triangle	
		Area of any triangle	Area of any triangle	
		Area of a parallelogram	Area of a parallelogram	
		Volume - counting cubes	Volume - counting cubes	
		Volume of a cuboid	Volume of a cuboid	Year 6 - Area, perimeter and volume
	Statistics	Line graphs	Line graphs	Year 5 - Statistics
		Dual bar charts	Dual bar charts	
		Read and interpret pie charts	Read and interpret pie charts	
Pie charts with percentages		Pie charts with percentages		

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Term	Block	Small Step	Recommended Sumdog White Rose Maths Skill	Sumdog White Rose Maths Assessment Opportunity
Spring	Statistics	Draw pie charts	Draw pie charts	Year 6 - End of term arithmetic (Spring)
		The mean	The mean	Year 6 - Statistics
Summer	Shape	Measure and classify angles	Measure and classify angles	Year 6 Sumdog Diagnostic
		Calculate angles	Calculate angles	Year 5 - Shape
		Vertically opposite angles	Vertically opposite angles	
		Angles in a triangle	Angles in a triangle	
		Angles in a triangle - special cases	Angles in a triangle - special cases	
		Angles in a triangle - missing angles	Angles in a triangle - missing angles	
		Angles in quadrilaterals	Angles in quadrilaterals	
		Angles in polygons	Angles in polygons	
		Circles	Circles	
		Draw shapes accurately	Draw shapes accurately	
	Nets of 3D shapes	Nets of 3D shapes	Year 6 - Shape	
	Position and direction	The first quadrant	The first quadrant	Year 5 - Position and direction
		Read and plot points in four quadrants	Read and plot points in four quadrants	
		Solve problems with coordinates	Solve problems with coordinates	
		Translations	Translations	Year 6 - End of term arithmetic (Summer)
Reflections		Reflections	Year 6 - Position and direction	

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