# White Rose Maths on Sumdog

## Scheme of Learning – Year 1

# Contents

## Year 1

# 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.
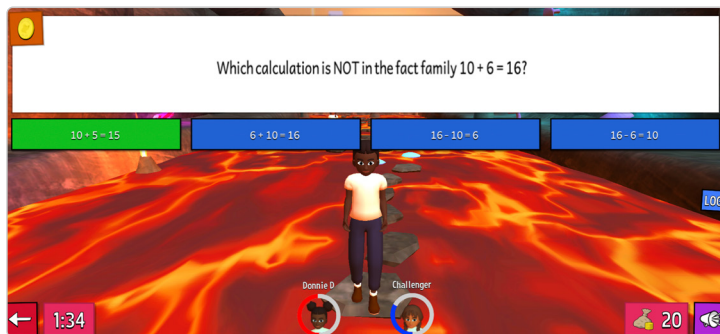
Over the past year at Sumdog, we have developed, reviewed and released an entire curriculum of skills and question content aligned to the new White Rose Maths (WRM) Version 3.0 scheme, with the aim of helping you to set work on Sumdog that exactly matches your in-class teaching. These skills not only 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.
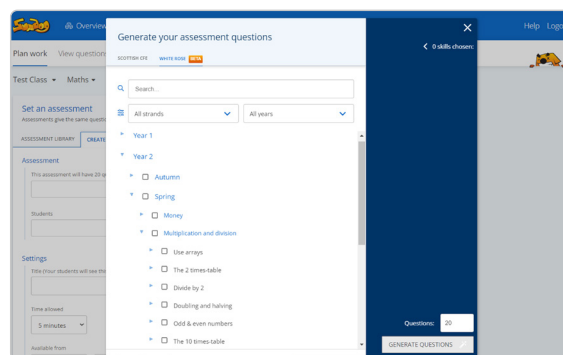
## Our Scheme of Learning

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.

# Use Case

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.
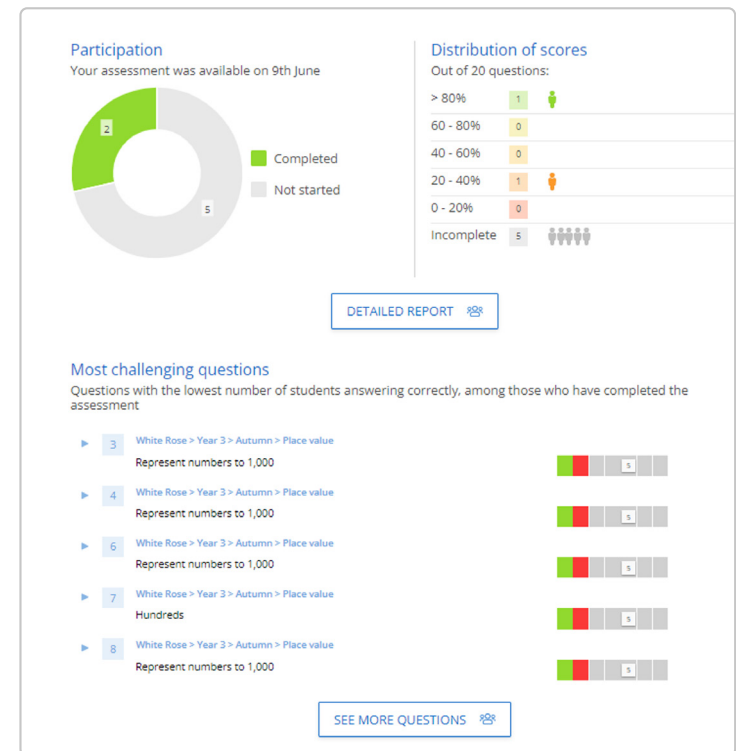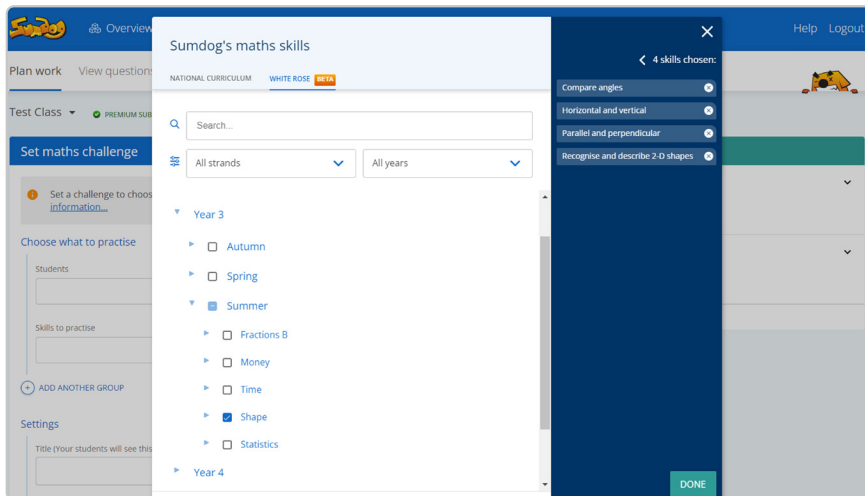
| Term | Block | Small Step | Recommended Sumdog White Rose Maths Skill | Sumdog White Rose Maths Assessment Opportunity |
|------|-------|-----------|-------------------------------------------|------------------------------------------------|
| Autumn | Place value (within 10) | Sort objects | **N/A** | 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 | 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 |

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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 | Year 1 – Place value (within 20) |
| | | 20, 30, 40 and 50 | **Revision – Count from 20 to 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 | **Revision – Use a number line to 20, Estimate on a number line to 20** | |
| | | 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 | |
| | | Measure length using objects | Measure length using objects | |
| | | Measure length in centimetres | Measure length in centimetres | Year 1 – Length and height |
| | Mass and volume | Heavier and lighter | Heavier and lighter | |
| | | Measure mass | **Revision – Heavier and lighter** | |
| | | Compare mass | | |
| | | Full and empty | Full and empty | |
| | | Compare volume | Compare volume | |
| | | Measure capacity | **Revision – Fully and empty, Compare volume** | Year 1 – End of term arithmetic (Spring) |
| | | Compare capacity | | Year 1 – Mass and volume |

| 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 | |
| | | Find a half of an object or a shape | **Revision – Recognise 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** | |

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 |
|---|---|---|---|---|
| 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** | |
| | | Recognise coins | Recognise coins | |
| | | Recognise notes | Recognise notes | |
| | | Count in coins | Count in coins | Year 1 – Money |
| | Time | Before and after | Before and after | |
| | | 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 | Year 1 – End of term arithmetic (Summer) |
| | | Tell the time to the half hour | Tell the time to the half hour | Year 1 – Time |

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Interested in trying our new fully aligned White Rose Maths scheme?

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