

Year 1 White Rose Maths Hub (WRMH) Autumn Scheme of Learning, 2017 Alignment with Mathletics

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|--------|--------------|---|-----------------------|--------|---|--|-----------------------|-----------------------------|--------------------------|------------------------------|--------------------------|---------------|
| - 13 | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| Autumn | , | Number: Place Value (within 10) | | Numbe | Number: Addition and Subtraction (within 10) | | | Geometry: Shape | Va | er: Place ilue iln 20) | Consolidation | |
| Spring | Numbe | | ition and Subtraction | | (Multip | (within 50) (Multiples of 2, 5 and 10 | | | rement: h and ight | Weig | rement: ht and ume | Consolidation |
| Summer | a (Reinfo | er: Multip nd Divisio rce multip .0 to be in | on oles of 2, | 925753 | aber: tions | Geometry: position and direction | Numbe Va (withi | er: Place lue in 100) | Measurement : money | TI | me | Consolidation |

This alignment document has been based on the White Rose Maths Hub scheme of learning available on the TES website.

www.tes.com/teaching-resource/wrm-schemes-of-learningyears-1-to-6-block-1-place-value-11652624

www.mathletics.com

Mathletics

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Purpose:

The aim of this document is to support Mathletics teachers, who use the WRMH scheme of learning, to make full use of the resources available within Mathletics. Whenever possible, activities, pages from the eBooks or learning experiences on Rainforest Maths have been matched to each of the small steps on the WRMH scheme of learning.

In Mathletics, many eBooks are available in the student interface, however all eBooks are available to teachers through the teacher console. These topic-based eBooks contain practice and fluency exercises, along with application questions and games. Only a small selection of the relevant pages has been added to the document.

Links to Rainforest Maths, which can be found in the 'Play' area in the Mathletics student interface, have also been included as this resource has great visuals which work well on interactive whiteboards and give pupils further opportunities to practise their learning online.

Course selection:

A specific Mathletics course has been created in alignment with the WRMH scheme of learning. You may wish to set this course for your class/groups.

England Yr 01 WRMH Autumn Aligned



Data-Driven Teaching and Learning



Differentiation



Feedback and Reflection







Blended Learning

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Examples of alignment to Mathletics Weeks 1-4 Number: Place Value

| National Curriculum Objecti | ves | WRMH Small Steps | | | |
|---|--|---|--|--|--|
| Count to <u>ten</u>, forwards and backward beginning with 0 or 1, or from any give number. Count, read and write numbers to <u>10</u> numerals and words. Given a number, identify one more or Identify and represent numbers using and pictorial representations includin number line, and use the language o to, more than, less than (fewer), most | en in one less. g objects ig the f: equal | Sort objects Count objects Represent objects Count, read and write forwards from any number 0 to 10 Count, read and write backwards from any number 0 to 10 Count one more Count one more Count one less One to one correspondence to start to compare groups Compare groups using language such as equal, more/greater, less/fewer Introduce = , > and < symbols Compare numbers Order groups of objects Order numbers (1st, 2nd, 3rd) The number line | | | |
| Small step: Count objects Click on the card. How many? | Activity: D Pupils click | mber and Place Value within 10 Dot Display K on the card and see the dots briefly then record er they saw. They can click on the card again and heck. | | | |
| How many ducks? We many ducks? We way to be a set of the set of | Activity: H | mber and Place Value within 10 <i>Iow Many?</i> nt the objects (up to 10 objects). | | | |









Small steps:

- One to one correspondence to start to compare groups
- Compare groups using language such as equal, more/greater, less/fewer

| Who has more robots? | Topic: Number and Place Value within 10 Activity: <i>Picture Graphs: More or Less</i> Pupils compare two groups using one-to-one counting. They decide who has more or less. |
|--|--|
| Who has the fewest apples? | Topic: Number and Place Value within 10 Activity: <i>Pictograms: Who has the Goods?</i> Pupils compare three groups of objects. They decide who has the most, the fewest or a particular number of objects. |
| Does Samantha have more than, less than or the same as Paul? | Topic: Number and Place Value within 10 Activity: <i>More, Less or the Same to 10</i> In this activity, pupils can move the counters to help them compare the amounts. When they submit the answer, the counters are lined up to show the comparison more easily if needed. |
| Small step: Ordinal numbers (1st | , 2nd, 3rd) |
| Which is the fourth object? | Topic: Number and Place Value within 10 Activity: Ordinal Numbers Pupils count the objects and select the object in the correct position. |



Small step: The number line

Mathletics



eBook, A series: Walking Back and Forth (rich task)

This rich task provides pupils with an opportunity to practise the counting sequence on a number line. Included is an interactive, as well as printable sheets.

Mathletics

Examples of alignment to Mathletics Weeks 5-8 Number: Addition and Subtraction

| National Curriculum Objectives | WRMH Small Steps |
|--|---|
| Represent and use number bonds and related subtraction facts <u>within 10</u> Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one digit numbers <u>to 10</u>, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems. | Part whole model Addition symbol Fact families - Addition facts Find number bonds for numbers within 10 Systematic methods for number bonds within 10 Number bonds to 10 Compare number bonds Addition: Adding together Addition: Adding more Finding a part Subtraction: Taking away, how many left? Crossing out Subtraction: Finding a part, breaking apart Fact families - The 8 facts Subtraction: Finding the difference Comparing addition and subtraction statements a + b > c Comparing addition and subtraction statements a + b > c + d |

Small step:

Part whole model

• Systematic methods for number bonds within 10



eBook, B series: Operations with Number, page 4

Find bonds for numbers within 10 using patterns. Complete number bonds within 10 using a part-whole model. Mothletics

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Small steps:

• Number bonds to 10

Addition symbol





5 and 5 makes 10

Topic: Addition and Subtraction within 10 Activity: *Adding to make 5 and 10*

Pupils use a tens frame and move counters to find out how many more counters are needed to make 5 or 10.



eBook, A series: Operations with numbers, page 7 Pupils practise counting two groups that add to ten using counters on a tens frame. Introduction to the addition symbol.

Small step: Addition: Adding together



Topic: Addition and Subtraction within 10 Activity: *Model Addition*

The support shows pupils how adding two groups together relates to moving along a number line.



Rainforest Maths – Level A – Add bugs

Add two groups of objects together and select the correct answer card.

Addition - to 10



eBook, A series: Operations with numbers, page 14 Add two groups of objects together and record the

Add two groups of objects together and record the number sentence with and without the addition symbol.



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Small step: Finding a part





Rainforest Maths – Level A – Subtract Skinks

Pupils click to subtract the skinks and count how many are left.

Subtracting within 10 - crossing out

One way to subtract is to take things away or cross them out
and count how many are left.
$$6 - 2 = 4$$

1 Cross out the pictures to match these number facts.



eBook, B series: Operations with Number, page 47 Subtraction within 10 by crossing out objects and counting how many are left. Subtraction symbol used.

Small step: Subtraction: Counting back



eBook, B series: Operations with Number, page 48 Subtraction within 10 by counting back using a number line.

Topic: Addition and Subtraction within 10 Activity: *Subtracting from Ten* Count back along a number line to subtract within 10.

Small step: Subtraction: Finding a part, breaking apart

Number bonds - to 10

9-2=



7

eBook, A series: Operations with numbers, page 8 This game requires pupils to find the amount that was

taken away from 10 using counters and a tens frame.





Small step: Subtraction: Finding the difference



eBook, B series: Operations with numbers, page 49 Find the difference between two amounts using visual supports.

Small step: Comparing addition and subtraction statements a + b > c + d

Balance Numbers to 10

The difference is

The difference is



Topic: Addition and Subtraction within 10 Activity: *Balance Numbers to 10* Add the missing numbers to create two equal (k

Add the missing numbers to create two equal (balanced) number sentences.

Possible extension activities



Live Mathletics - Level 1

Timed activities for students who are ready to develop fluency in addition and subtraction up to 10. Teachers can access Live Mathletics, through the student view and the play area. Many teachers use this resource with the whole class or small groups, and have pupils either calling out answers or recording on whiteboards. If they do access the game independently, pupils can select to play against their peers, the computer, or with other pupils from around the world.

eBook, B series: Lady Bug Crawl (rich task)

The interactive uses 14 lady bugs, but shows pupils how these lady bugs can be moved across the 2 leaves to create different addition and subtraction number sentences. The printable problem for pupils could be adapted to give pupils 10 ladybirds, supporting the learning of numbers to 10.

Mathletics

Examples of alignment to Mathletics Week 9 Geometry: Shape

| National Curriculum Objectives | WRMH Small Steps |
|--|--|
| Recognise and name common 2-D shapes, including: (for example, rectangles (including squares), circles and triangles). Recognise and name common 3-D shapes, including: (for example, cuboids (including cubes), pyramids and spheres). | Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 3D and 2D shapes |



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| 3D shapes sorting. | Rainforest Maths — Level B — 3D shapes: sorting Drag the correct 3D shapes into the boxes eg, cubes or spheres, cones or cylinders. |
|---|--|
| Small step: Recognise and name | 2D shapes |
| Series B - Geometry Contents Topic 1 - 20 shape (pp. 1-16) Demo • sorting / • sorting // | eBook, B series: Geometry, page 1–16 Recognise, draw, trace, compare and sort common 2D shapes. |
| 2D shapes names. | Rainforest Maths — Level B — 2D shapes: names Name the 2D shape shown. |
| Small step: Sort 2D shapes | |
| Place the rectangles in the frame. <u< th=""><th>Topic: Shape Activity: <i>Collect Simple Shapes</i> Drag the named 2D shape into the frame. The support compares the 2D shape with a real-life example.</th></u<> | Topic: Shape Activity: <i>Collect Simple Shapes</i> Drag the named 2D shape into the frame. The support compares the 2D shape with a real-life example. |
| 2D shapes matching. squares rectangles triangles circles brag the shapes. | Rainforest Maths — Level A — 2D shapes: matching Sort different colours and orientations of 2D shapes into their correct categories. |
| Small step: Patterns with 3D and | 2D shapes |
| Patterns and Problem Solving - Complete the Pattern | Tania: Shana |
| What comes next? | Topic: Shape Activity: <i>Complete the Pattern</i> This activity supports conversations about what shapes are |
| | in the pattern, and also how pupils know which shape to select next. |

Mathletics

Examples of alignment to Mathletics Weeks 10 and 11 Number: Place Value

| National Curriculum Objectives | WRMH Small Steps |
|---|---|
| Count to <u>twenty</u>, forwards and backwards, beginning with 0 or 1, from any given number. Count, read and write numbers to <u>20</u> in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. | Count forwards and backwards and write numbers to 20 in numerals and words Numbers from 11 to 20 Tens and ones Count one more and one less Compare groups of objects Compare numbers Order groups of objects Order numbers |

Small steps:

- Count forwards and backwards and write numbers to 20 in numerals and words
- Numbers from 11 to 20



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- Compare groups of objects
- Compare numbers



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Small steps:

• Order groups of objects

• Order numbers

| Numbers to 20 — ordering numbers Now let's compare three numbers. 11 15 9 11 is less than 15. 15 is more than 11. 9 is less than 11. 11 is more than 9. 9 is less than 15. 15 is the greatest. 9 is less than 15. 15 is the greatest we start with the smallest number. 3 mallest 0 smallest we start with the biggest number. 3 greatest 15 11 9 smallest | eBook, B series: Numbers, page 26 Order numbers up to 20. The exercise helps to develop the transitivity concept. |
|--|--|
| What numeral is missing? | Topic: Number and Place Value within 20 Activity: Order Numbers to 20 In this activity, pupils use the order of numbers up to 20 to find a missing number. |











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