

A Number Fun Quick Link Guide for:



White Rose Maths



Year:



Number: Addition and Subtraction

Autumn Term 2021:

Block:



Weeks:



to



Here is a quick reference guide to help you link the White Rose Planning with the Number Fun Resources.

This document contains hyperlinks to:

Key Number Fun Song Video – the ideal video to help children begin to explore this small step.

Additional Number Fun Links – additional resources to support and extend the learning within this small step.

Check out our [Guide to using Number Fun Videos and Portal effectively](#). Many Number Fun videos are accompanied by Teacher Ideas Packs, designed to provide creative games and activities to support the teaching of each objective.

For information about all the Number Fun Training, Consultancy and Resources visit: www.numberfun.com.

Hyperlinks:



Click the Video Thumbnail

The hyperlink will take you to this song's page on the Number Fun Portal

(Note: You will need to log into the Number Fun Portal to access each song's resources.)



Click the Icon Thumbnail to hyperlink to this resource in the Number Fun online Shop

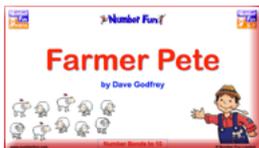


Click the Concept Teaching Video Thumbnail to hyperlink directly to the video

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Top Number Fun Warm-Up Suggestions



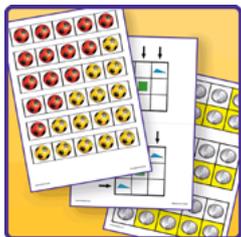
A classic Number Fun video. Farmer Pete keeps losing his sheep in this number bonds to 10 adventure!



Mr. Noah is counting his kangaroos in 2s, his bees in 5s and his kangaroos again in 10. Lots of fun to act out!

Top Number Fun Shop Suggestions

All shop suggestions are downloads unless highlighted otherwise.



Year 1 & Year 2 Addition & Subtraction Essentials

A set of tables, bond visualisations, grids, tens frames and number tracks are for use with the White Rose Year 1 and Year 2 Addition and Subtraction blocks



Tens Frame Bus

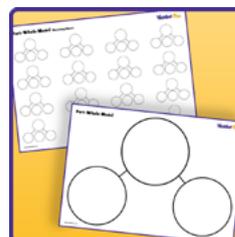
The 10s Frame Bus is a powerful tool for exploring and reasoning about number and simple calculation. The 10s Frame bus is accompanied by images of children sitting and standing on the bus, and also waiting at the bus stop.

Small Steps

1: Part-whole model



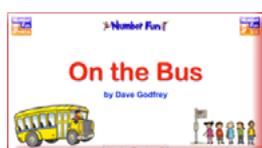
Mick the Mechanic is partitioning single digit numbers into parts using the part-whole model. Ideal for using the 'Play and Mirror' strategy, where children use resources whilst they watch the video. What other options does Mick have?



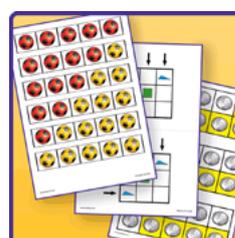
Part/Whole Model

This free downloadable PDF document contains a range of Part/Whole Models, including models that partition into 3 and 4 parts.

2: Addition symbol



This video explores number bonds to 5. After introducing the concept of the addition symbol in activity, finish your session with this video. Encourage children to write their own equations to represent the imagery in each verse.



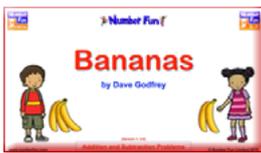
Year 1 & Year 2 Addition & Subtraction Essentials

Page 9 of this document includes a template for this particular small step.

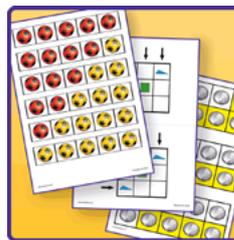
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3: Fact families - addition facts



This link is to the version of the Bananas song from the 3-5 section of the portal. There is also a version in the 5-7 section. Pause each verse and work together to identify the other equations in the fact family and what the story might be behind each one.



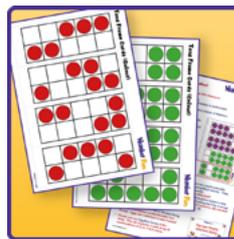
Year 1 & Year 2 Addition & Subtraction Essentials

This set includes templates for recording addition fact families. Also useful for the following small steps due to the bond visualisations found within it.

4: Find number bonds from numbers within 10



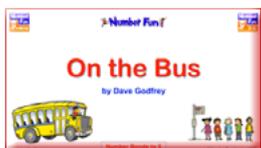
Sets of 5, 7 and 9 monkeys are either sleeping or dancing in the tree within each verse. Each verse provides two possible bonds to the total - what are the other options? Pause and reason as appropriate. Use cubes to represent the monkeys



Tens Frames (Colour)

This is an extensive set of Tens Frame images (100 tens frame in total) that explore different arrangements of cubes in a tens frame.

5: Systematic methods for number bonds within 10



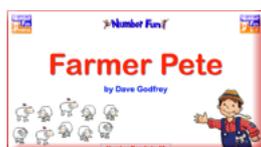
This video helps children visualise the systematic representation of number bonds to 5. Use the story context to explore other bonds within 10. For example, there could be 7 children on the bus, either sitting down or standing up!



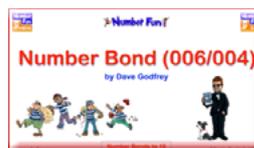
Tens Frame Bus

The 10s Frame Bus is a powerful tool for exploring and reasoning about number and simple calculation. The 10s Frame bus is accompanied by images of children sitting and standing on the bus, and also waiting at the bus stop.

6: Number bonds to 10



This is probably the best known Number Fun video. Farmer Pete keeps losing his sheep, one by one recognising the number bonds as he goes. The visualisation links to tens frames. Great for acting out or modelling using resources.



There are several videos on the Number Fun Portal that explore number bonds to 10. The link here is to another very popular video that features the criminal catching Number Bond 006/004!

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7: Compare number bonds



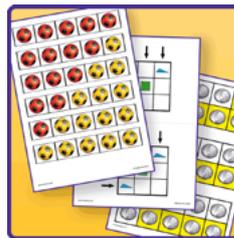
Bus Stop Cards

Each Bus Stop card shows a combination of boys and girls, (sitting down or standing) on the bus or standing at the bus stop. Children compare cards. Who has the most children? What equations are represented?

8: Addition - adding together



Return to this video. Mick the Mechanic is partitioning numbers of counters. Pause the video and gently roll backwards and forwards across an animation (e.g. 1:35 to 1:37). In this way the animation shows both partitioning and combining for addition.



Year 1 & Year 2 Addition & Subtraction Essentials

This set includes the table found in this small step in the White Rose Year 1 Addition and Subtraction block. Also includes templates for Small Step number 10 for the use of Part-Whole models.

9: Addition - adding more



In this video either 1 more or 10 more coins are dropped onto the floor. How many coins are on the floor now? Can you make up your own examples in the classroom?



Egg Box Numbers

This versatile set of images shows zero to 20 cubes in a tens frame. Children have print outs and then add some more cubes by placing them on the images. How many cubes are there represented now?

10: Finding a part



This video encourages children to find 'the part' whilst reinforcing number bonds to 10. Use part-whole models and a concrete resource to model the problem solving



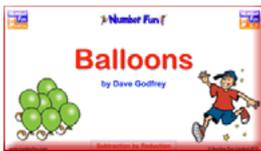
1-10 Image Cards

This expanded set of picture cards includes 12 powerful representations of each number from 1 to 10. Hand out the cards to your children. Set up story problems with children having to find out who has the part. E.g. I've got 8 wellies at home, I can find 3. Who has the card with the rest?

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11: Subtraction - taking away, how many left? Crossing out



Tommy is blowing up balloons for his birthday party, but they keep bursting! Play, pause and explore as appropriate.
Idea: Take a screen grab of the balloons. Print and encourage children to cross out the number rolled on a dice.



Tens Frame Bus

Place a number of children on the bus. Pretend the bus stops at the bus stop and children get off. How many are left?

12: Subtraction - taking away, how many left? (-) Symbol



Here's an alternative video that explores the concept of reduction (taking away). Pirate Captain Bert keeps nicking Pirate Captain Hugh's toys! Pause and reason about which equation might appear on the screen? (See teacher ideas pack)



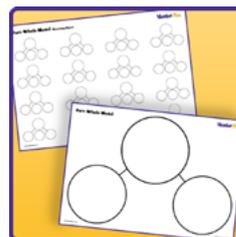
Counting Strips

Print out the strips and use creatively. E.g. Children are given a strip and they fold some of this images to 'take them away' and they then record the subtraction equation.

13: Subtraction - finding a part, breaking apart



Mick the Mechanic is partitioning single digit numbers into parts using the part-whole model. Ideal for using the 'Play and Mirror' strategy, where children use resources whilst they watch the video. What other options does Mick have?



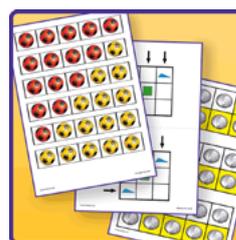
Part/Whole Model

This free downloadable PDF document contains a range of Part/Whole Models, including models that partition into 3 and 4 parts.

14: Fact families - the 8 facts



The full video explores the three models of subtraction (reduction, comparison and partitioning). Jump to verse 3 and pause at 1:54. Here's a scenario very similar to that in the WRM documentation. What 8 facts can you reason from the image? Which fact is being portrayed in the story?



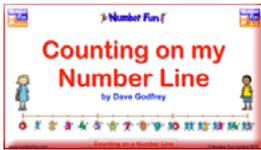
Year 1 & Year 2 Addition & Subtraction Essentials

A set of tables, bond visualisations, grids, tens frames and number tracks includes templates for recording the 8 facts within a fact family.

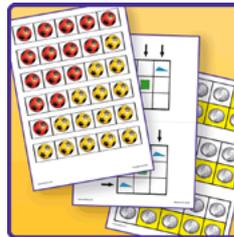
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15: Subtraction - counting back



This video explores both counting on and counting back using a number line. Children can be given number lines or number tracks and encouraged to move a counter along with the music and imagery.



Year 1 & Year 2 Addition & Subtraction Essentials

This set includes templates for simple number lines.

16: Subtraction - finding the difference



In this video two number shapes are compared in order to find the difference. Give your children a set of number shapes to use as you follow the video and then extend the learning.



Difference Tower Cards

This pack contains 32 Difference Tower Cards. Each card has two towers, with each tower carefully created in groups of 5 cubes in alternating colours. Great for reasoning!

17: Comparing addition & subtraction statements $a + b > c$



Bus Stop Cards

Each Bus Stop card shows a combination of boys and girls, sitting down or standing on the bus, or standing at the bus stop.

Explore cards, for example, with 'a' = children standing on the bus, 'b' = children sitting on the bus, 'c' = children at the bus stop!

18: Comparing addition & subtraction statements $a + b > c + d$



Bus Stop Cards

Adapt the previous idea. Explore cards, for example, with 'a' = boys on the bus, 'b' = girls on the bus, 'c' = boys at the bus stop, 'd' = girls at the bus stop!