

A Number Fun Quick Link Guide for:



White Rose Maths



Year:



Number: Place Value

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

Year: Autumn Weeks: to Number: Place Value

Top Number Fun Warm-Up Suggestions



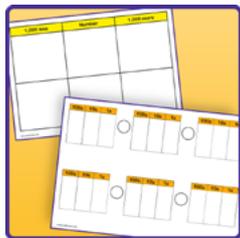
Papa Titoning is a lumberjack. His log classification system provides a powerful image for place value from 0.001 through to 10,000,000. This video and concept has proved incredibly powerful for helping children grasp our Base 10 system.



This video helps children explore the origins of each prefix and helps connect the use of prefixes to measures. Use this to explore links between place value and measure.

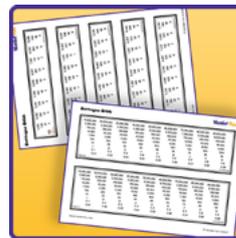
Top Number Fun Shop Suggestions

All shop suggestions are downloads unless highlighted otherwise.



Years 5 & 6 Place Value Essentials

This document is an interactive PDF set of grids, tables, number tracks and number lines for use with the **White Rose** Year 5 Place Value units.



Gattegno Grids

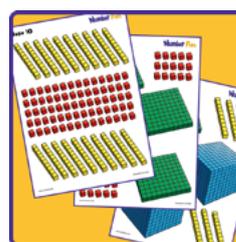
This is comprehensive set of Gattegno grids. The images can be used on your whiteboard as well as being printed for the children to use for various activities.

Small Steps

1: 1000s, 100s, 10s & 1s



Papa Titoning is a lumberjack. Pause the video after 5 seconds and explore his log classification system. What do you notice? This video and concept has proved incredibly powerful for helping children grasp our Base 10 system.



Base 10 Imagery

This PDF includes versions of the Base 10 imagery used in the Number Fun videos.

2: Numbers to 10,000



In this video, a four-digit number is visualised in different combinations of 1,000s, 100s, 10s and 1s. Of the four visualisations, which is the usual way of thinking about a number? What do you make of the other visualisations?



Base 10 Playing Cards

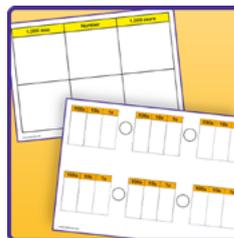
This pack includes pictures of the Base 10 equipment inside a 10s Frame. Much like an ordinary pack of playing cards, it has 4 'suits' which are the 1000s, 100s, 10s and 1s. Great for creating 4 digit numbers, plus a host of games!

Year: Autumn Weeks: to Number: Place Value

3: Rounding to the nearest 10



This video rounds 2-digit and 3-digit numbers to the nearest 10. Utilise the backing track and create your own challenges for the children to reason through and sing to.



Years 5 & 6 Place Value Essentials

This document is an interactive PDF that includes, amongst other things, a set of number lines and grids for rounding.

4: Rounding to the nearest 100



Use this video to explore 6 different 3-digit numbers. This may be through taking screenshots of the numbers. Reason about the importance of each column/digit when rounding a number to the nearest 100.



Years 5 & 6 Place Value Essentials

This document is an interactive PDF that includes, amongst other things, a set of number lines and grids for rounding.

5: Round to the nearest 10, 100 and 1,000



Papa Titoning and Alice are announcing the number of logs lumbered at an award ceremony. Pause the video at suitable moments. Can you round the number of logs to the nearest 10, 100 and 1000?



Number Line Strips

This extensive set of number lines includes strips for numbers to 100 and 1000. It also includes empty templates. (Also see Essentials Document)

6: Numbers to 100,000



Papa Titoning is a lumberjack. Pause the video after 5 seconds and explore his log classification system. Then use dice, Papa T. Playing Cards or ordinary digit cards to generate a number of logs. Children then reason and represent these numbers in the varied fluency task within a context.



Years 5 & 6 Place Value Essentials

This document is an interactive PDF that includes, amongst other things, a sets of place value grids.

Year: Autumn Weeks: to Number: Place Value

7: Compare and order numbers to 100,000



Place Value Counter Playing Cards

Use this set of playing cards under the visualiser to generate and explore large numbers. The cards include representations of place value counters from 0.001 through to 10,000,000.

8: Rounding to the nearest 100,000



Papa Titoning and Alice are announcing the number of logs lumbered at an award ceremony. Pause the video at suitable moments. Can you round the number of logs to the nearest 10, 100, 1,000, 10,000 and 100,000?



Number Line Strips

This extensive set of number lines includes lines, including Numbers to 100 and 1000. It also includes empty templates.

9: Numbers to a million



Return again to Papa Titoning's Log Classification System. Watch, sing, pause and reason about the relationship between each place value digit. Write a number on your whiteboard. If Papa T had this number of logs, does each digit represent?



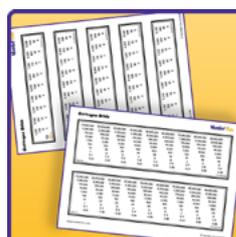
Papa Titoning's Log Gattegno Grids

Use these grids in conjunction with the imagery on the video presentation. Use digit cards or Papa T's Playing Cards to generate and represent numbers. Use these grids to explore increasing and decreasing a number of logs.

10: Counting in 10s, 100s, 1,000s, 10,000s and 100,000s



Papa Titoning and Alice are announcing the number of logs lumbered at an award ceremony. Pause the video at suitable moments and count on from the number generated in 10s, 100s etc.



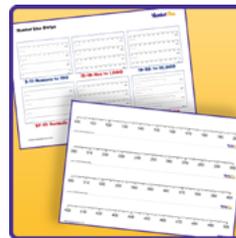
Gattegno Grids

This is standard set of Gattegno grids that can be used to count in 10s, 100s, 1,000s, 10,000s and 100,000s as appropriate. The images can be used on your whiteboard as well as being printed for the children to use.

Year: Autumn Weeks: to to

Number: Place Value

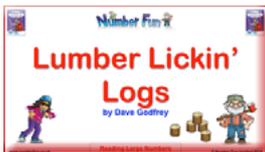
11: Compare and order numbers to one million



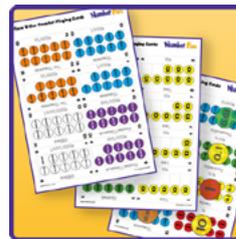
Number Line Strips

This extensive set of number lines includes strips for decimals and numbers to up 1 million. It also includes empty templates.

12: Rounding to one million



Papa Titoning and Alice are announcing the number of logs lumbered at an award ceremony. Pause the video at suitable moments. Can you round the number of logs to the nearest 10, 100, 1,000, 10,000? Etc.



Place Value Counter Playing Cards

Use this set of playing cards under the visualiser to generate large numbers. The cards include representations of place value counters from 0.001 through to 10,000,000.

13: Negative numbers



Number Bond 006/004 is visiting the Mi8/Mi2 headquarters. There are 10 floors above ground and 10 below ground. Number Bond travels up and down the floors.



The transporter on the Starship Number Fun is malfunctioning, sending the away team to different locations - some with sub-zero temperatures!



Mi8/Mi2 Towers

This PDF download helps children to explore positive and negative numbers in the context of an office block with floors above and below ground. Set 1 has 10 floors above and below ground. Set 2 has 20 floors above and below ground. These are ideal for game play and for reasoning . (see 'The Search for M' Video).

14: Roman numerals to 1,000



This song helps children remember the value of each Roman numeral. In each verse the children count in multiples using the Roman numerals. Pause and reason as appropriate.



Roman Numerals Pack

This pack contains 3 powerful tools for exploring Roman Numerals found in this pack: Number Grids, Digit Cards & Flashcards.