

Intervention programme: 2 x 1 hour weekly intervention

Pre-intervention assessment			
Weeks		What we will be doing	Objectives
WK1	Day 1	Introduction to the Japanese abacus (soroban), Learning 1 to 9, Adding and taking away from 1 to 9 using the soroban.	Understanding how to use the soroban. Completing sums under 10.
	Day 2	Introducing 10 to 90 and completing sums on tens and units columns.	Reinforcing their understanding of what makes 6, 7, 8, and 9. Learning to combine tens and units and applying what they have learned to practice.
WK2	Day 1	Counting in ones from 1 to 10 and in tens from 10 to 100. Focusing on numbers in teens (10 to 14).	Focusing on partitioning numbers in teens to ensure a secure understanding of basic numbers. Showing them how a group of ten units will carry over to the next rod and how to take away from a 'tens' bead.
	Day 2	Counting in ones from 1 to 20 and in tens from 10 to 200 using the soroban. Partitioning numbers less than 100.	Understanding the partitioning of numbers up to 100 and how we can use this to find missing numbers in sums given. Emphasising the grouping of 10 units into a 'tens' bead and 10 'tens' into a 'hundreds' bead.
WK3	Day 1	Focusing on partitioning of double digit numbers into tens and units. Emphasising the regrouping of numbers.	Understanding how double digit numbers are added together using the soroban. Emphasise on adding tens to tens in the 'tens' column and units to units in the 'units' column when completing sums.
	Day 2	Focusing on double digit partitioning further and learning how to add on tens mentally. Number comparisons (greater than, less than, and equal).	Emphasising the decomposition of numbers into tens and units and how adding on a ten can be easily done on the 'tens' rod. Understanding the basic of finding out the difference between two sums.
WK4	Day 1	Partitioning numbers in hundreds. Learning to add on tens or hundreds to each number shown. Number comparisons (greater than, less than, and equal) and number sequences.	Assessing children understanding of number magnitude and number sequences. Building their understanding on how tens and hundreds can be added on easily using the abacus.
	Day 2	Using number bonds 5 on abacus. Partitioning 3-digit numbers. Emphasising on adding units to units and tens to tens.	Understanding 'What makes five?' Completing sums using this understanding. Encourage flexibility in thinking by exploring other methods in solving sums.
WK5	Day 1	Revising number bonds 5. Using number bonds 5 understanding to complete number bonds 50.	Revising adding 1, 2, 3, 4 on their soroban. Learning to transfer the number bonds 5 understanding into number bonds 50.
	Day 2	Revising number bonds 5 and 50.	Continue reinforcing number bonds 5 and 50 understanding. Allowing them to build their understanding of how numbers are added together.
WK6	Day 1	Understanding the inverse relationship of adding. Taking away from the '5' bead, focusing on taking away 1s and 2s from the '5' bead.	Building children understanding of numbers further by using real life shopping examples.
	Day 2	Revising number bonds 5, focusing on taking away 3s and 4s from the '5' bead. Transferring this understanding to taking away from the '50' bead.	Completing sums relating to number bonds 5 and 50 and their inverse relationship. Allowing children to continue practicing on partitioning of numbers and applying the number bond concepts to practice.
WK7	Day 1	Completing tables relating to all number bond operation.	Reinforcing their understanding of the number bonds and allowing them to continuously think of these number bonds and their inverse relationship through the use of the abacus in completing as many tables as possible.
	Day 2	Exploring number bonds 10. Using the abacus to compute two single digit numbers which add up to 10 and more.	Using number bonds 10 understanding to complete sums. These exercises will allow them to practice on their number bonds 10 recall.
WK8	Day 1	Revising number bonds 10 and explore number bonds 100. Using the abacus to reinforce their number bonds 10 and 100 understanding.	Reinforcing number bonds 10 understanding and how this understanding can be used in learning number bonds 100. Continue to use number bonds understanding to complete sheets.
	Day 2	Revising number bonds 10 and 100 and their inverse relationship. Getting children to recall the number bonds quickly. Completing a table using their number bonds 100 understanding.	Reinforcing their number bonds 100 understanding and exploring how the number bonds work on 3-digit sums.

WK9	Day 1	Completing double digit sums without regrouping mentally.	Consolidating and applying what children have learned over the past 8 weeks by completing simple double and 3-digit additions mentally. Children should usually be able to complete this part easily. This should boost their confidence.
	Day 2	3 different ways in completing single digit sums with regrouping.	Allowing children to choose the method they are most comfortable with when adding two single digit numbers with regrouping.
WK10	Day 1	Completing double digit sums with regrouping mentally.	Applying the methods they have learned into practice.
	Day 2	Exploring place value up to thousands. Completing 3-digit sums with regrouping mentally.	Expanding children understanding of numbers into thousands. Applying their place value understanding to complete sums into thousands.
WK11	Day 1	Revising number bonds 10 and their inverse relationship. Number sequences and number magnitude. Completing simple subtraction with regrouping.	Exploring subtraction with regrouping using real life shopping example.
	Day 2	Revising number bonds 10. Single digit additions with regrouping mentally. Completing number sequences. Completing multi-digit additions with regrouping.	Building their confidence in completing multi-digit additions with regrouping. Continuing to dissect numbers in their thousands to enable a good understanding of place value.
WK12	Day 1	Revising 4-digit numbers and their place values. Completing missing numbers in sums mentally. Completing multi-digit additions mentally.	Using place value understanding to complete multi-digit digit additions with regrouping and find missing numbers in sums.
	Day 2	Completing double digit subtraction with regrouping.	Expanding their understanding of subtraction with regrouping.
WK13	Day 1	Completing multi-digit subtraction with regrouping. Finding out missing numbers using their place value understanding up to thousands.	Exploring number bonds 100 and their inverse relationship. Building on this understanding, they will be completing multi-digit subtraction with regrouping.
Post-intervention assessment			